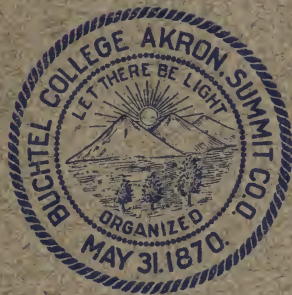



CATALOGUE
OF
BUCHTEL
COLLEGE

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AKRON, OHIO
1911-1912



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BUCHTEL COLLEGE CAMPUS

FORTY-FIRST
ANNUAL CATALOGUE
OF
BUCHTEL COLLEGE
AND
ACADEMY

FOR THE YEAR
1911-1912

AKRON : OHIO

PUBLISHED BY THE COLLEGE
APRIL, 1912 .

The Commercial Printing Company
Akron, Ohio

BUCHTEL COLLEGE

AND

ACADEMY

Founded in 1870 by the
OHIO UNIVERSALIST CONVENTION

Named in honor of
HON. JOHN R. BUCHTEL

CO-EDUCATIONAL

NON-SECTARIAN

Furnishes the highest grade of Classical, Literary
and Scientific instruction, under the immediate
direction of Thorough and Experienced Teachers.

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Degrees of A. B., Ph. B. and S. B.

Academy Courses of a Scientific and Literary nature
and preparatory to College.

For catalogue and other information address

A. B. CHURCH, D. D., LL. D., President,
AKRON, OHIO

CALENDAR.

1912

January 3, Wednesday, 7:45—Class Work resumed.
January 18, Thursday—Founder's Day.
January 19 and 22, Friday and Monday—Classification for Second Half-Year.
February 3, Saturday—First Half-Year closes.
February 5, Monday—Second Half-Year begins.
February 22, Thursday—Washington's Birthday.
March 13, Wednesday—Mid-Year Meeting of Board of Trustees.
March 15, Friday 7:30 P. M.—Sophomore Ashton Speaking Contest.
April 3, Wednesday, 4 P. M.—Easter Recess begins.
April 10, Wednesday, 7:45 A. M.—Class Work will be resumed.
May, Friday—Tree Day.
June 8, Saturday—Senior Vacation begins.
June 14, Friday, 8 P. M.—Senior Class Exercises of Academy.
June 16, Sunday, 2:30 P. M.—Baccalaureate Service, Crouse Gymnasium.
June 17, Monday, 10 A. M.—Senior Class Exercises.
June 17, Monday, 8 P. M.—Senior Promenade.
June 18, Tuesday—Annual Meeting of Board of Trustees at the College.
June 18, 2:30 P. M.—Junior Ashton Speaking Contest.
June 18, 8 P. M.—President's Reception.
June 19, Wednesday, 9:30 A. M.—Commencement Address and Conferring of Degrees.
June 19, Wednesday, 2 P. M.—Meeting of Alumni at Buchtel Hall.
June 19, Wednesday, 8 P. M.—Social Alumni Meeting and Annual Banquet.
September 16, Monday, 1:30 P. M.—Registration and Classification of local students.
September 17, Tuesday, 9:00 A. M.—Registration and Classification of students continued.
September 18, Wednesday, 7:45 A. M.—Class Work begins.
November 28 and 29, Thursday and Friday—Thanksgiving recess.
December 6, Friday, 7:30—Senior Ashton Speaking Contest.
December 18, Wednesday, 4:00 P. M.—Christmas Holidays begin.

1913.

January 2, Thursday, 7:45 A. M.—Class Work resumed.
January 18, Saturday—Founder's Day.
January 17 and 20, Friday and Monday—Classification for second Half-Year.
January 31, Friday, 4:00 P. M.—First Half-Year closes.
February 4, Tuesday, 7:45 A. M.—Second Half-Year begins.
February 22, Saturday—Washington's Birthday.
March 12, Wednesday—Mid-year meeting of Board of Trustees.
March 14, Friday, 7:30 P. M.—Sophomore Ashton Speaking Contest.
March 19, Wednesday, 4:00 P. M.—Easter recess begins.
March 26, Wednesday, 7:45 A. M.—Class Work resumed.
May, Friday—Tree Day.
June 7, Saturday, Senior Vacation begins.
June 13, Friday, 8:00 P. M.—Senior Class Exercises of Academy.
June 15, Sunday, 2:30 P. M.—Baccalaureate Service, Crouse Gymnasium.
June 16, Monday, 10:00 A. M.—Senior Class Exercises.
June 16, Monday, 8:00 P. M.—Senior Promenade.
June 17, Tuesday—Annual meeting of Board of Trustees.
June 17, Tuesday, 2:30 P. M.—Junior Ashton Speaking Contest.
June 17, Tuesday, 8:00 P. M.—President's Reception.
June 18, Wednesday, 9:30 A. M.—Commencement Address and Conferring of Degrees.
June 18, Wednesday, 2:00 P. M.—Meeting of Alumni at Buchtel Hall.
June 18, Wednesday, 8:00 P. M.—Annual Alumni Banquet.

The following is a list of the original incorporators of Buchtel College:

- *J. S. CANTWELL, D. D.
- *COL. GEO. T. PERKINS.
- *HENRY BLANDY.
- *REV. GEO. MESSINGER.
- REV. B. F. EATON.
- *JUDGE NEWELL D. TIBBALS.
- *REV. J. W. HENLEY, D. D.
- *JUDGE E. P. GREEN.
- *O. F. HAYMAKER.
- *JOHN R. BUCHTEL.
- *REV. H. F. MILLER.
- REV. E. L. REXFORD, D. D.
- REV. H. L. CANFIELD, D. D.
- *WILLARD SPAULDING.
- *GEORGE STEESE.

*Deceased.

TRUSTEES.

PRESIDENT A. B. CHURCH, D. D., LL. D., Ex-Officio.

Terms expiring 1912:

HERMON A. KELLEY, A. M., LL. D.....	Cleveland
CHARLES B. RAYMOND, A. M.....	Akron
R. A. CLARK, B. S., LL. B.....	Pittsburg, Pa.
WILL CHRISTY	Akron
JUDGE D. A. DOYLE, A. B., LL. D.....	Akron
W. B. BALDWIN, A. B.....	Akron
M. D. STEVENSON, M. D.....	Akron
F. W. ALBRECHT	Akron

Terms expiring 1913:

*HON. GEO. W. CROUSE.....	Akron
ARTHUR J. SAALFIELD	Akron
HON. JOSEPH HIDY, Ph. B., LL. D.....	Cleveland
JAMES FORD, B. S.....	Washington C. H., O.
A. H. NOAH	Akron
WALLACE L. CARLTON	Akron
F. H. ADAMS	Akron

Terms expiring 1914:

*REV. ANDREW WILLSON, D. D.....	Ravenna
REV. E. G. MASON, D. D.....	Muncie, Ind.
REV. LEE S. MCCOLLESTER, D. D.....	Detroit, Mich.
F. M. COOKE, A. B.....	Akron
JOHN R. SMITH, A. B.....	Akron
A. A. KOHLER, A. B., M. D.....	Akron
A. H. MARKS	Akron
F. A. SEIBERLING	Akron

*Deceased.

ORGANIZATION OF TRUSTEES.

A. B. CHURCH, A. M., D. D., LL. D.,
PRESIDENT

FRANK A. SEIBERLING,
VICE-PRESIDENT

CHARLES R. OLIN, M. S.,
SECRETARY AND TREASURER

EXECUTIVE COMMITTEE.

A. B. CHURCH, A. M., D. D., LL. D.	
WALLACE L. CARLTON	FRANK M. COOKE, A. B.
JOHN R. SMITH, A. B.	FRANK A. SEIBERLING
ANDREW H. NOAH	CHARLES B. RAYMOND, A. M.

PRESIDENTS OF BUCHTEL COLLEGE.

S. H. MCCOLLESTER, D. D., Litt. D.....	1872-1878
E. L. REXFORD, D. D.....	1878-1880
*ORELLO CONE, D. D.....	1880-1896
C. M. KNIGHT, Sc. D. (ad interim).....	1896-1897
I. A. PRIEST, D. D.....	1897-1901
A. B. CHURCH, D. D., LL. D.....	1901-

*Deceased.

FACULTY, INSTRUCTORS AND OFFICERS.

For the Year 1911 and 1912.

A. B. CHURCH, A. M., D. D., LL. D.

PRESIDENT

Messenger-Professor of Mental and Moral Philosophy

President's House, 250 East Buchtel Avenue

CHARLES M. KNIGHT, A. M., Sc. D.,

DEAN OF THE FACULTY

Buchtel-Professor of Chemistry

129 South Union Street

JOSEPH C. ROCKWELL, A. M. Ph. D.,

Professor of Latin and Greek

56 Casterton Avenue

CHARLES BROOKOVER, M. S., Ph. D.,

Professor of Biology and Geology

330 Merriman Road

OSCAR E. OLIN, A. M.,

Professor of Economics and History, and Instructor in

Mental and Moral Philosophy

128 North Forge Street

PARKE R. KOLBE, A. M., Ph. D.,

Hilton-Professor of German Language and Literature

271 Rosedale Place

ALBERT I. SPANTON, A. M.,

Pierce-Professor of English

407 Vine Street

SARAH DEMAUPASSANT PLAISANCE, A. M.,

Professor of Romance Languages

201 Spicer Street

*Except the President, the arrangement is in order of appointment.

FRANCIS J. HOLDER, A. M., Ph. D.,
Ainsworth Professor of Mathematics, Astronomy and Physics
267 Brown Street

CHARLES R. OLIN, M. S.,
Assistant Professor of Mathematics
421 Spicer Street

CHARLES BULGER, Ph. B.,
Acting Professor of German Language and Literature
74 Mayfield Avenue

HEZZLETON E. SIMMONS, B. S.,
Assistant Professor of Chemistry
448 Henry Court

MARGARET I. WILSON, A. M.,
Assistant Professor of English
489 Orchard Court

CARITA McEBRIGHT, A. B.,
Instructor in Oratory
369 E. Market Street

ELIZABETH M. WEAVER, A. B., M. D.,
Lecturer to Women on Hygiene and Physical Training
28 Oakdale Avenue

FRANK HAGGERTY, LL. B.,
Physical Director and Athletic Coach
622 Buchtel Avenue

HAROLD HAINES,
Assistant in Biology
750 Carroll Street

PETER VITTEL,
Assistant in German
81 South Howard Street

MAX MORRIS
Assistant in Mathematics
848 Rhodes Avenue

ELLERY T. HOCH,
Assistant in Physics
Barberton

FLOY LYON,
Assistant in English
86 Ann Street

CHARLES O. RUNDELL, B. S.,
Principal of the Academy and Teacher of German
483 Orchard Street .

M. ALICE RINES, A. M.,
Assistant Principal of the Academy and Teacher of Latin
470½ Carroll Street

CHARLES H. SHIPMAN, A. B.,
Teacher of Physical Science and Mathematics
69 Kirkwood Street

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Teacher of English and History
146 South College Street

HALLIE TILLSON, Ph. B.,
Librarian
63 South Forge Street

CATHARINE BLANCHARD,
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Curtis Cottage

MRS. S. M. McELHINNEY,
In Charge of Curtis Cottage

GLADYS P. WEEKS,
Office Assistant
248 South Balch Street

FRED H. NESTELLE,
Janitor
706 Bell Street

WM. VIERING,
Assistant Janitor
265 Carroll Street

COMMITTEES OF THE FACULTY.

1911-1912.

Committee on Classification

PROFESSORS ROCKWELL AND SPANTON

Committee on Course of Study

PROFESSORS BROOKOVER, SPANTON, HOLDER AND RUNDELL

Committee on Scholarships

PRESIDENT CHURCH AND PROFESSOR KNIGHT

Committee on Records

PROFESSORS SPANTON AND BULGER

Committee on Printing

PRESIDENT CHURCH AND SECRETARY OLIN

Committee on Rules and Discipline

PRESIDENT CHURCH, PROFESSORS KNIGHT, BROOKOVER AND PLAISANCE

Committee on Prize Speaking

SECRETARY OLIN AND MISS McEBRIGHT

Committee on Socials and Holiday Observances

PROFESSOR BROOKOVER, MADEMOISELLE PLAISANCE, MISS WILSON AND
MRS. THOMPSON

Committee on Music

PRESIDENT CHURCH AND PROFESSOR ROCKWELL

Committee on Athletics

PROFESSOR BULGER, C. H. SHIPMAN AND DIRECTOR HAGGERTY

Committee on Buildings and Grounds

PROFESSORS KNIGHT, OLIN AND BROOKOVER

Committee on Oratory and Debate

PROFESSORS BULGER, SPANTON AND O. E. OLIN

Secretary of Faculty

PROFESSOR O. E. OLIN

REFERENCE COMMITTEE.

ASHWORTH, REV. GEO. H.....	Sycamore, Ill.
BROWN, FLORA B.....	Dublin, Ind.
CANFIELD, H. L., D. D.....	Pasadena, Cal.
COLE, JAMES E.....	Norwalk, Ohio
COLEGROVE, REV. O. G.	Greenville, Ohio
CROSLY, REV. MARION.....	308 E. 15th St., Indianapolis, Ind.
LAUGHEAD, KATHERINE	New Lebanon, Ind.
FORD, JAMES	Washington C. H., Ohio
FULLINGTON, WALTER C.....	Marysville, Ohio
GREENE, MRS. JOSEPH E. W.....	Newport, Ohio
HEWITT, JOHN H.....	New Castle, Ind.
HOLLINGER, M. J.	Rockmart, Ga.
HUNTER, MRS. L.	Tidioute, Pa.
KELLEY, H. A., LL. D.....	Western Reserve Building, Cleveland, Ohio
MIGNIN, MRS. C. F.....	Castile, N. Y.
MARKLEY, MRS. CHARLES	London, Ohio
MCCOLLESTER, LEE S., D. D.....	654 John R. St., Detroit, Mich.
ROSENDALE, MRS. T. T.....	Fostoria, Ohio
SLADE, WM. H.....	Akron, Ohio
STONER, REV. SARA L.....	Eaton, Ohio
STEWART, MRS. ROSE.....	Muncie, Ind.
STEPHENS, CHAS. H.....	Cor. 3rd and Walnut Sts., Cincinnati, Ohio
TUCKER, ROBERT	Portland, Oregon
WENGER, I. S.	New Madison, Darke Co., Ohio
COUCH, MRS. M. E.....	No. Adams, Mass.
MASON, REV. L. WALTER.....	339 Pacific Ave., Pittsburg, Pa.
RICHARDS, REV. L. J.....	Baltimore, Md.

The above named persons have signified their willingness to serve on the Reference Committee. From time to time, catalogues and such other advertising matter of Buchtel College, as may be at hand, will be sent to each member of the committee.

Parents desiring to inform themselves about college courses and methods and students desiring to enter College, are advised to call upon some member of the committee who may reside in the vicinity.

ENDOWMENTS.

MESSENGER PROFESSORSHIP.

The Messenger Professorship of Mental and Moral Philosophy was endowed by Mrs. Lydia A. E. Messenger, late of Akron, in memory of her deceased husband, Rev. George Messenger.

HILTON PROFESSORSHIP.

The Hilton Professorship of Modern Languages was endowed by John H. Hilton, late of Akron.

PIERCE PROFESSORSHIP.

The Pierce Professorship of English Literature was endowed by Mrs. Chloe Pierce, late of Sharpsville, Pa.

BUCHTEL PROFESSORSHIP.

The Buchtel Professorship of Physics and Chemistry was named in honor of Mrs. Elizabeth Buchtel, late of Akron.

AINSWORTH PROFESSORSHIP.

The Ainsworth Professorship of Mathematics and Astronomy was endowed by Henry Ainsworth, late of Lodi.

RYDER PROFESSORSHIP.

The Ryder Professorship of Rhetoric and Oratory was established by the Board of Trustees in memory of Dr. William H. Ryder, late of Chicago.

MESSENGER FUND.

The Messenger Fund was created by Mrs. Lydia A. E. Messenger, late of Akron. The fund consists of \$30,000.

ISAAC AND LOVINA KELLY FUND.

The Isaac and Lovina Kelly Fund was created by Isaac Kelly, late of Mill Village, Pa. This fund consists of \$35,788.

WILLIAM PITT CURTIS FUND.

This fund was established by William Pitt Curtis, late of Wadsworth, O. It now amounts to \$25,000.

CROSLEY LIBRARY FUND.

Rev. Lotta D. Crosley has established this fund with a gift of \$3,000.

PERPETUAL SCHOLARSHIPS.

The following named persons have established perpetual scholarships in Buchtel College :

*Miss E. V. STEADMAN.....	Marietta
*JAMES PIERCE	Sharpsville, Pa.
*ELIJAH DRURY	Girard, Pa.
Mrs. MARY C. MARTIN.....	Lebanon
*JAMES F. DAVIDSON	Brimfield
*†Miss BETSEY THOMAS	Irwin
*JOHN PERDUE	Lafayette, Ind.
*ELI M. KENNEDY	Higginsville, Mo.
*JOHN K. SMITH	Ravenna
*N. S. OLIN	Ravenna
*JOHN B. SMITH	Urbana
*Mrs. CANDIA PALMER	Painesville
*Mrs. GEO. W. STEELE	Painesville
*GEORGE W. STEELE	Painesville
Mrs. BETSEY DODGE	McConnellsville
*JOHN ESPY	Kenton
*JOSEPH HIDY, SR.	Jeffersonville
*Mrs. HENRY BOSZAR	Brimfield
*HENRY BOSZAR (3)	Brimfield
*H. D. LOUDENBACK	Westville
*THOMAS KIRBY	Muncie, Ind.
*ISAAC AND LOVINA KELLY	Mill Village, Pa.
*S. T. AND S. A. MOON	Cuba
*GEORGE THOMAS	Greenwich
*Mrs. E. W. TERRILL	Jeffersonville
*Mrs. JOHN H. HILTON	Akron
*SAMUEL BIRDSSELL	Peru
*SAMUEL GRANDIN	Tidioute, Pa.
*N. B. AND A. E. JOHNSON.....	Mingo
*HENRY AINSWORTH (10)	Lodi
Mr. AND Mrs. JOHN MILLER.....	Edgerton
JOHN P. CHAPIN	New Philadelphia
*CHRISTIAN SWANK	Creston, O.
*Mrs. S. O. ACOMB	Tidioute, Pa.
*Mrs. JANE BETZ (2)	Hamilton
*†Miss HANNAH ALLYN	Akron
*Mrs. ROSA G. WAKEFIELD	Green
*MARTHA A. BORTLE	Hamilton, O.
‡‡DELIA LORING MORRIS	Marietta, O.

These Scholarships are intended to aid worthy and deserving students, and are awarded by a Scholarship Committee under authority from the Board of Trustees.

*Deceased.

†In honor of her father, Eliphas Burnham.

‡In memory of her father and mother, Mr. and Mrs. Israel Allyn, and her sister, Lucy Allyn.

‡‡In memory of her father, Oliver Rice Loring.

GENERAL INFORMATION.

FOUNDATION.

Buchtel College was founded in 1870 by the Ohio Universalist Convention and took its name from its most generous benefactor, Hon. J. R. Buchtel, who consecrated his life and wealth to its support. It was chartered by the Ohio Legislature in the same year as a College of Liberal Arts and Letters, and first opened its doors for the admission of students in September, 1872. It is designed to secure the highest grade of Classical, Scientific and Literary culture known to American Colleges.

LOCATION.

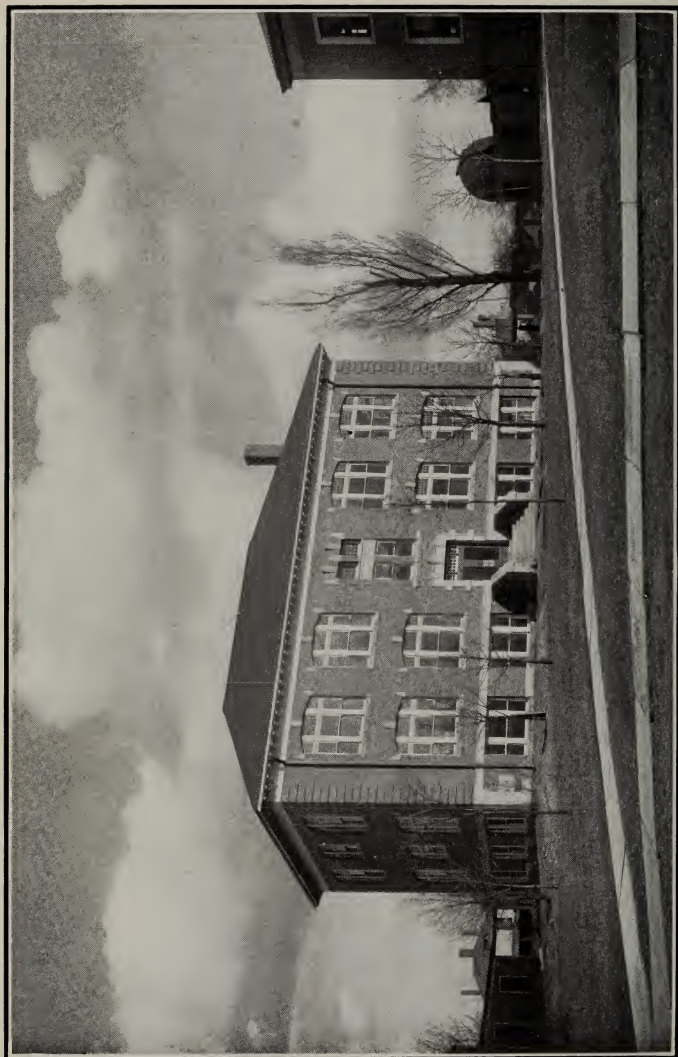
Buchtel College is located in Akron, Summit County, Ohio. This city, with a population of about 80,000, is situated in the midst of hills and valleys, and is one of the most picturesque in the country. It is a healthful city and easy of access, having direct connection with all parts of the country. It is located on the line of the Erie; Cleveland, Akron & Columbus; Cleveland, Terminal & Valley; Pittsburg & Western; Northern Ohio, and Baltimore & Ohio Railways; also on the A. B. and C., and Kent, Ravenna, Canton, Barberton and Wadsworth Divisions of the Northern Ohio Traction Company's electric lines.

BUILDINGS AND GROUNDS.

The College Campus comprises six acres, is situated on the highest eminence in the county and faces on Buchtel Avenue, one of the pleasant residence streets of the city. The Loop Line electric cars, which receive transfers from all city and suburban lines, pass the college gates.

At present there are eight buildings on the campus, these being only the beginning of the prospective quadrangle of the Greater Buchtel.

Owing to the fire of 1899 the Buchtel Hall, Knight laboratory, Curtis Cottage and Academy buildings and the heating plant are each new, with new furnishings and laboratory equipments, and are admirably adapted to the work required of them.



KNIGHT CHEMICAL LABORATORY

BUCHTEL HALL.

Buchtel Hall, designed for College classes in all work except Chemistry, is a beautiful building, classic in design and convenient in arrangement. As is shown by the cut, the main entrance is up a broad flight of marble steps to the first floor, which is high enough to leave the basement story almost entirely above ground. In the center of the first floor is the grand staircase and an open court extending to a skylight. There are four large recitation rooms with a Professor's private office connected with each on the first and second floors. On the ground floor, besides a workshop and separate study, bicycle, and toilet rooms for young men and women, is a suite of six rooms well planned and equipped for the Physical Laboratories.

KNIGHT CHEMICAL LABORATORY.

The Knight Chemical Laboratory, for the construction of which Andrew Carnegie gave \$25,000, is a three-story brick building containing eighteen rooms. It combines the best ideas of modern laboratory arrangements and is admirably equipped for the work of that department. A large and well lighted room is provided for the special library and reading room of the department, and in addition to the regular courses, laboratories have been provided for special courses in rubber and clay analysis, introductory to these great industries of the city.

BUCHTEL ACADEMY.

The Academy is designed for the convenience of the Preparatory School. It is a roomy and convenient three-story building. On the ground floor are the Physical Laboratories, and the separate lockers and toilet rooms for young men and women. On the second floor are the Administration Offices and the main recitation rooms. On the third floor are two large class rooms and an Assembly Room.

FIRE PROOF.

These three buildings have the heating, ventilating and sanitary arrangement and appointments of the most approved kind known to modern builders. With the Gymnasium, they are heated from one central heating plant.

ASTRONOMICAL OBSERVATORY.

The Observatory is intended for the use of students, and, although some of the apparatus is very delicate and costly, yet it will be freely placed in the hands of those students who prepare themselves for its use. It is furnished with the following instruments:

An Equatorial Telescope of 4.5 inches aperture.

A Meridian Circle of 3 inches aperture, provided with various necessary accessory apparatus, and so mounted that it can be used as a Zenith Telescope.

Two Astronomical Clocks, furnished with electric connections.

A Chronograph.

Various other minor apparatus.

CROUSE GYMNASIUM.

This building is named in honor of the late Hon. George W. Crouse, of Akron, one of the liberal benefactors of the College.

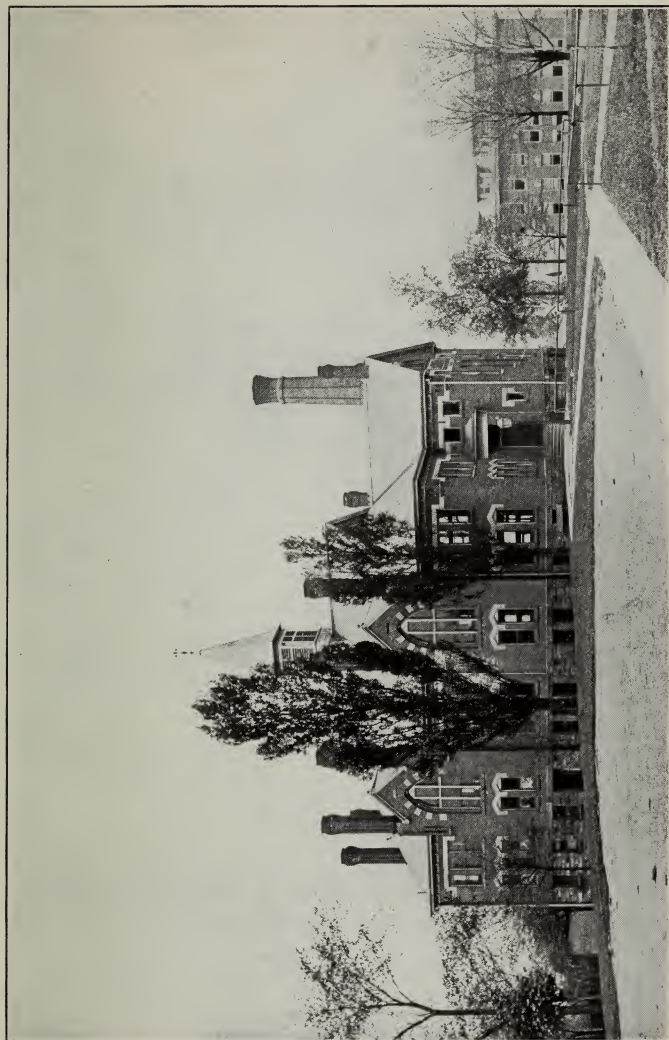
The structure is a substantial brick building, one hundred and two feet in length by fifty-three feet in breadth. The basement contains the locker, dressing, toilet and shower-bath rooms newly furnished. On the first floor are the Director's office and the Gymnasium proper, which is eighty-four feet long and forty-eight feet broad. This room is equipped with apparatus and offers facilities for physical development. A running gallery of twenty-five laps to the mile surrounds the room.

The Gymnasium is open at stated times for the exclusive use of the young women, and at other times for the exclusive use of the young men.

In addition to the above mentioned facilities for physical culture, the College possesses, only two squares away, extensive Athletic Grounds of four acres, which are admirably adapted for use of the students in playing base ball, foot ball, lawn tennis and similar games.

THE HEATING PLANT.

The Heating Plant is located in a building by itself, thus avoiding any danger from fire or explosion. The plant is equipped with a thoroughly modern smoke-consuming device. By means



CROUSE GYMNASIUM

of conduits the steam is conveyed to the other buildings where fresh air is heated and forced through the rooms by the fan system.

CURTIS COTTAGE.

Curtis Cottage is the college home for women. It has eleven student rooms, uniform in size and furnishings and arranged for two students in a room,—parlors, dining room, kitchen, laundry and its own efficient hot water heating plant. It furnishes also a delightful suite of rooms for two of the women's fraternities.

The Cottage is in charge of a preceptress of culture and school experience, and provides, at a moderate expense, a home for women students, which is most modern and sanitary in all of its appointments, convenient and comfortable in its arrangements, and delightful and elevating in its social life.

THE PRESIDENT'S HOUSE.

The President's house is situated on the Campus within easy access of the other buildings; is a commodious, substantial brick structure with modern conveniences and is occupied by the President and his family.

AIM.

Buchtel College is organized and equipped to give to young men and women a wholesome physical development, a most thorough mental discipline, and a practical, altruistic, moral training; to hold up before them the noblest ideals of manhood and womanhood and to develop within them a genius for usefulness.

INSTRUCTION.

The instruction of the College aims to combine the advantages of the lecture, recitation and laboratory systems.

COLLEGE COURSES.

The curriculum embraces:

First: A Classical Course.

Second: A Philosophical Course.

Third: A Scientific Course.

These are four-year courses leading to the degrees of A. B., Ph. B., and S. B., and are equal to those offered by other similar institutions of the country.

ACADEMY COURSES.

In connection with the College, but occupying a separate building on the Campus and with a separate Faculty, is Buchtel Academy, in which students are thoroughly prepared for college entrance. Owing to limited numbers, the student is under the personal supervision of a strong corps of teachers and is afforded daily practical drill in class room and laboratory work.

LABORATORY AND APPARATUS.

The new Knight Chemical Laboratory with its ten separate and well equipped laboratory, thesis, library and lecture rooms, affords the best of facilities for students pursuing this line of work. The large, well lighted and completely equipped general laboratories are well adapted to the work in elementary and in advanced chemistry, while the separate laboratories for rubber, clay, cement, assaying, water analysis, gas analysis, physical chemistry and electrolysis offer excellent opportunities for research and specialization in many attractive and fruitful fields.

The laboratories for physics are arranged in the basement of Buchtel Hall. Six rooms are given to the use of experimental physics. The rooms for experiments in electricity and magnetism are free from iron in their construction, and solid masonry floors in all laboratories secure the delicate instruments from outside jar and disturbance.

Excellent facilities for work in photography are provided by a well equipped dark-room, and students in physical science are encouraged to become familiar with the best methods of experimental illustration.

The department of Biology and Geology is located in Buchtel Hall, where three laboratory and lecture rooms are fitted for work in biology and geology. The student is supplied with microscopes, reagents, microtomes, and other apparatus needful for thorough work in Biological research. A collection of minerals and crys-

tals, together with maps, charts, and a paleontological cabinet, comprise the equipment for work in Geology.

The College is supplied with excellent surveying instruments in the way of compass, engineer's level, surveyor's transit with solar attachment for determining the true meridian independent of the needle, chains, tapes, poles, pins, etc.

The Astronomical Observatory is adequately equipped with efficient, delicate and costly instruments for carrying on in a practical laboratory way that line of higher mathematics.

BIERCE LIBRARY.

The College library had its origin with a collection of works donated in 1874 by the late Gen. L. V. Bierce. During the early days of the College the Library was augmented by books purchased from the proceeds of a bequest received from Gen. Bierce's estate. In recognition of this early gift the Library has been called the Bierce Library.

At the present time the Library is in Buchtel Hall and embraces about 10,000 bound volumes of standard works (exclusive of public documents). These books have been mostly selected with special reference to their use in connection with the various departments of college instruction. All are classified and arranged on the shelves by the Dewey system of classification.

In connection with the Library is the College Reading Room, which has upon its files the leading periodicals and newspapers of the day. These are selected, upon recommendation of the various departments, with special reference to supplementing class-room instruction. These periodicals, when bound, form a valuable part of the Reference Collection.

Over 500 volumes have accumulated in the stock room since the fire. Through the kindness of friends of the college, 100 of these volumes have recently been bound and placed on the shelves. The Alumni Association have now started a fund for the binding of periodicals and books. This fund will put a large part of the remaining number in shape for better service and it is hoped that frequent additions will be made to insure the binding for the future. The Library is open during term time every week day except legal

holidays. The hours are 7:30 a. m.—12:00 m. and 1:00 p. m.—4:30 p. m., except Saturday, when they are 7:30 a. m.—11:30 a. m. Each student may draw two books at a time and keep them for a period of two weeks. Books from the reserve shelves, i. e., books reserved by instructors for class use cannot be taken from the Library until 4:15 p. m. and must be returned before 7:45 a. m. of the following day.

A trained librarian of experience has charge of the Library to render it of greatest usefulness to the students.

PHI SIGMA ALPHA.

Phi Sigma Alpha is an honorary society, founded for the purpose of encouraging high scholarship among the Buchtel College students. Only three students are chosen for membership from each senior class.

First:—That member of the senior class having the highest grades for three and one-half years.

Second:—The two members (one a man, the other a woman) having the next highest grades for three and one-half years.

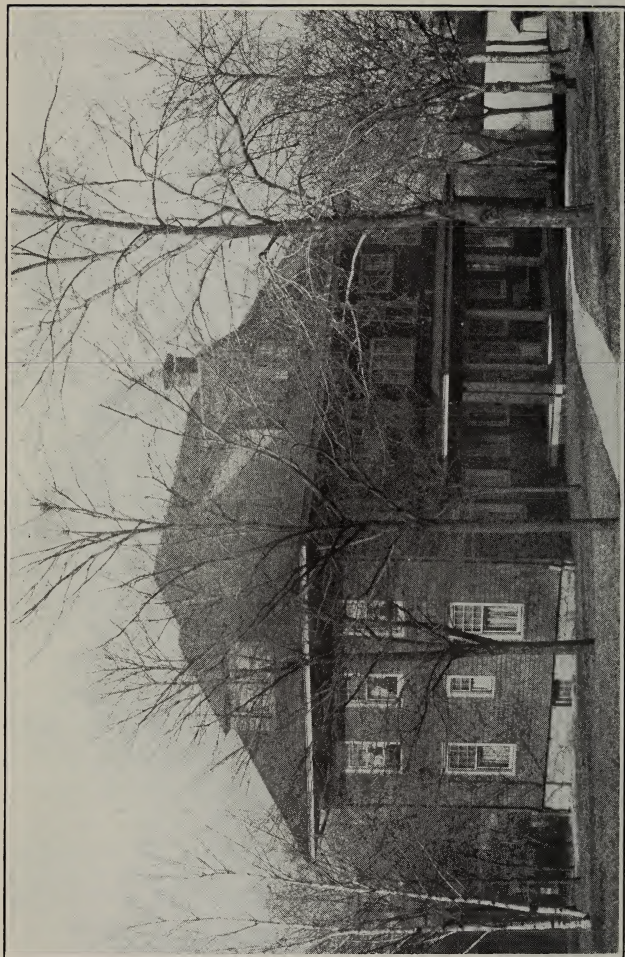
These three students are elected for membership at the beginning of the second semester of their senior year and are given at once the privilege of wearing the fraternity's badge and colors during the remainder of their senior year in recognition of their high attainments in scholarship. The regular initiation takes place during Commencement week of the same year.

The badge of the fraternity is of gold in the shape of an ancient coin, bearing on the obverse side a serpent, a helmet and the Greek letters Phi Sigma Alpha, and upon the reverse side ten stars, the owner's name, the year of the class and "Buchtel College."

The colors of the fraternity are green and silver.

ORATORY AND DEBATE.

The importance of college people being able to give an intelligible and graceful expression of themselves is recognized and emphasized in special instruction in the spoken word and in prize contest in public speaking offered each year. These contests are open to members of the sophomore, junior and senior classes.



CURTIS COTTAGE

In argumentation and debate a thorough course is given each year in which all sophomores are required to participate.

DRAMATIC CLUB.

A Dramatic Organization is maintained by the students for mutual self-culture, and for the study of literature and the histrionic art. One or more public entertainments are given each year with credit to the club and the College.

All such literary organizations and efforts are approved and encouraged by the College.

ATHLETICS.

Recognizing the fact that physical training is as legitimate a part of any system of education as is the mental, Buchtel College has made ample provision for this course in education, in her large and well equipped Gymnasium and Athletic Field. Systematic instruction is given to both young men and women in the Gymnasium each year by trained instructors, and the young men are given systematic training and regular drill in track athletics. Public sports, such as foot ball, base ball, basket ball and lawn tennis are permitted and encouraged so far as is consistent with the student's health and with his progress in the class-room.

GLEE CLUB.

A Glee Club under the direction of a trained instructor is maintained by the men of the College. Several public concerts are given each year.

CO-EDUCATION.

The College and Academy admit students of both sexes. No sex discrimination is made in requirements and equal educational advantages and honors are offered to each.

SOCIAL ADVANTAGES.

With the realization that education is a development of social courtesies and personal graces as well as the power of mental analysis, the student life at Buchtel College is so conducted as to afford opportunities for such culture. Young ladies and gentle-

men, as such, mingle freely on the Campus, in the College halls and class-rooms during recitation hours. Formal and informal social college functions, banquets, exhibitions and contests, receptions and class socials occur at intervals through the year, in which young ladies and gentlemen participate with members of the faculty and their friends.

The young ladies are under the general supervision of the lady members of the faculty and are made to feel free to go to them for counsel and advice.

RELIGION.

No restriction or coercion is imposed upon students in their exercise of religious beliefs. All students are asked to name the denomination of their choice on their registration and are expected to attend the church of that denomination while in College. Nearly all denominations are represented in Akron by flourishing churches. While the College had a denominational foundation and is reverently Christian in its social life and in the principles of its administration and instruction, yet in its internal economy it is in no sense sectarian. All students are required to attend chapel services.

DISCIPLINE.

The regulations for governing student life are few and simple, appealing to the student's self-respect and personal responsibility.

It is the policy of the government to allow in all things as much liberty as will not be abused, and the students are invited and expected to co-operate with the Faculty. Frequenting bar-rooms, billiard-rooms or saloons, and all riotous and disorderly behavior, are forbidden. The use of tobacco and spirituous liquors about the college buildings and on the grounds is prohibited.

All students registering with the College put themselves under obligations faithfully to observe and obey the laws and regulations of the College and all authoritative acts of the President and Faculty and to use their influence by precept and example to induce others in like circumstances to do the same.

REGISTRATION AND CLASSIFICATION.

All students are required to present themselves to the Classification Committee of the College or Academy for registration and

assignment of work, on or before the first day of each half-year. A classification card will be given each student showing the classes he is assigned to. This card must be presented to the Secretary of the College for his signature when arranging for term bills, and to each instructor for his signature immediately upon entering a class.

The card must then be returned to the Classification Committee, fully signed as above indicated, on or before the third day of the term.

DEGREES.

The degree of Bachelor of Arts will be conferred on students who have completed the Classical Course.

The degree of Bachelor of Philosophy will be conferred on those who have completed the Philosophical Course.

The degree of Bachelor of Science will be conferred on those who have completed the Scientific Course.

A thesis showing original research by the student may be presented for graduation. Credit in term hours will be allowed for such work if accepted by the Department to which it is presented.

Master's Degree.

The degree of A. M. will be conferred upon those who have acquired the degree of A. B. or Ph. B., and the degree of M. S. upon those who have acquired the degree of B. S. These degrees will be granted in not less than two years after graduation, unless the applicant, in residence, can devote the larger part of his time to the work, when the degrees may be granted in one year.

The candidate must accomplish the equivalent of a full college year's work of thirty-two term hours, choosing his subjects as Majors and Minors, twenty-four of which must be in the Major field.

In the Minor, the work may be partly unduplicated undergraduate, but the applicant will be expected to carry it beyond the lines of usual college work. In the Major, the work must be confined to graduate subjects and methods, and in this a satisfactory thesis must be presented which will give evidence of original work in the investigation of some new field rather than to consist of a

mere restatement of what is already known. The subjects and methods must have received the sanction of the professors in the departments chosen.

An examination will be required in both subjects.

Provided satisfactory arrangements are made, residence will not be required for graduates of this College in preparing for these degrees, although residence is recommended. Persons who have received the Bachelor's degree in any other college whose requirements for that degree are equal to those of Buchtel College may also be granted the Master's degree upon the above conditions, except that the courses must be taken in residence.

A candidate for either of these degrees, at any given commencement must present his thesis and report for examination not later than June 1st.

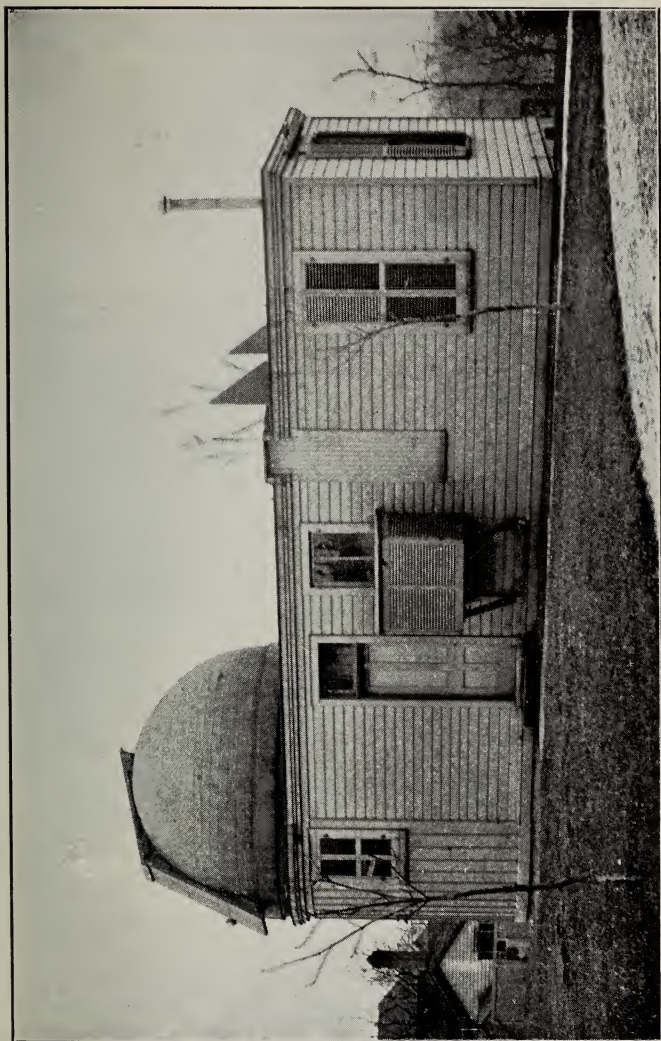
These degrees will not be granted for professional work leading to other degrees nor for journalistic work or teaching.

A fee of ten dollars will be charged for the Master's degree.

THE KATHERINE CLAYPOLE STUDENTS' LOAN FUND.

It is with pleasure we announce that there is now connected with Buchtel College a loan fund for the use of students who, in mid-term, as often happens, find themselves without sufficient means to complete the year's work. It is an experience common to most educational institutions to have almost yearly some of their best students subject to serious and discouraging loss of time by being obliged to relinquish their work because their means have failed through no fault of their own but on account of an unavoidable and unlooked for combination of circumstances. It is equally well known that even small loans at such times help to tide over, and prevent much hardship. This help members of the faculty have furnished at times rather than see worthy students lose their course. But where there is a fund purposely provided, both faculty and students are relieved of all embarrassment in the matter.

To supply this need in Buchtel College, a number of women's organizations of Akron have created, and, through a committee, are managing a loan fund very appropriately dedicated as a memorial to one of their much loved members, Mrs. Katherine Clay-



OBSERVATORY

pole, the founder here of organized women's work, always deeply interested in young people, and for many years closely connected with Buchtel College.

Any friend of Buchtel College, of Mrs. Claypole, and of young people, who wishes to assist by contributing to the fund or would like to know more of the details concerning it, will receive grateful response by writing any member of the committee.

Mrs. Chas. Brookover,
Mrs. Susie Cole,
Mrs. Myron D. Brouse,
Mrs. E. A. Voris,
Miss Mary Baird,
Mrs. C. W. Milliken.

PRIZE FUNDS.

ALUMNI PRIZES.—A fund has been established by the Alumni of the College, the income of which is annually appropriated according to the following regulations:

1st. That student—being a member of the Senior Class of the Academy—who makes the highest average grade during the year in full Senior work in the Academy, and completes his Senior year without conditions, shall be entitled to a credit of \$50.00 on tuition in the College during the succeeding year.

2nd. That student—being a member of the Freshman Class—who attains the highest average grade during the year in the regular Freshman work and completes his Freshman year without any conditions, shall be entitled to a credit of \$50.00 on tuition during the succeeding year.

3rd. That student—being a member of the Sophomore Class—who attains the highest average grade during the year in not fewer than thirty-two term hours above the Freshman year, and completes this year without conditions, shall be entitled to a credit of \$50.00 on tuition during the succeeding year.

4th. That student—being a member of the Junior Class—who attains the highest average grade during the year in not fewer than thirty-two term hours, and completes this year without con-

ditions, shall be entitled to a credit of \$50.00 on tuition during the succeeding year.

5th. In determining the award of prizes for any year, there shall be considered only grades made in regular class work at Buchtel College during that year in subjects completed before Commencement day.

6th. In case of a tie in any class the prize shall be equally divided.

7th. The prize for any class shall go to the student attaining the second highest average grade only in case the one ranking highest does not return to Buchtel College the next succeeding year.

OLIVER C. ASHTON PRIZES.—A fund consisting of \$3,000 has been established by the late Oliver C. Ashton endowing the O. C. Ashton Prizes for excellence in reading and recitation.

The annual income of this fund will be paid, one-third to competitors from the Senior Class, one-third to competitors from the Junior Class, and one-third to competitors from the Sophomore Class, in a first and second prize to each class, in the proportion of two to one.

These are public exercises, and will take place at stated times during the year.

SCHOLARSHIPS.

A number of scholarships have been endowed by friends of the College to aid worthy and deserving students. The donors of these scholarships may, at all times, designate one student who shall be entitled to free tuition in either the College or the Academy. So much of the income of these scholarships as is not thus used is at the disposal of the College. Scholarship benefits will be limited to \$50.00 in the College and \$35.00 in the Academy per year to any one student and in the distribution of these scholarships by the College, preference will be given to the immediate descendants of the donor, if the donor is deceased. This assistance will be granted to students only upon the sanction of a Com-

mittee of the Faculty after careful inquiry as to the needs of each applicant. In making this inquiry the Committee will consider not only the pecuniary needs of the applicant but his general character as well, and where a renewal of aid is requested, the Committee will also take into account the student's previous record in scholarship and general deportment.

Students thus receiving aid from the College may be called upon to render services to the College for any part, or all, of such aid. They will be expected to maintain their standing in scholarship, and to conduct themselves as exemplary students. A scholarship is granted with the expectation that the student will complete his course of study at Buchtel College, and, without a reason that shall be satisfactory to the President, honorable dismissal will not be granted until full tuition and all other college dues have been paid.

Applications for scholarship aid may be addressed to the President.

ACADEMY SCHOLARSHIP.

To the student taking the full course in the Academy, making the highest average class standing throughout the course, and graduating without condition, shall be awarded a scholarship of \$50.00 a year for three years in the College under the usual regulations.

HIGH SCHOOLS.—The College offers annually one scholarship to each of several high schools, and to Buchtel Academy, to be awarded to the student standing highest during the last year of his High School course. Each scholarship entitles the holder to \$50.00 credit on tuition each year for two years in the College, subject to the following conditions:

1st. If he fail, without good reasons, to attain a grade of 70 per cent. in any of the studies pursued by him in any term, he shall pay the tuition for that term, unless by the middle of the succeeding term he shall have made up the deficiency.

2nd. Whenever, in the course of any term, his deportment shall not, in the judgment of the Faculty, be such as becomes a

student, he shall pay the tuition for that term, and until such tuition is paid, it is understood that he shall not be entitled to further privileges in the College, nor to an honorable dismissal.

3rd. In case he shall leave Buchtel College, to attend any other College or School for the same work, without reasons which shall be satisfactory to the President of Buchtel College, he shall pay tuition for the entire period during which he shall have had the use of the scholarship, and failing to do so, it is understood that he shall not be entitled to an honorable dismissal.

TOWNSHIP.—Two standing scholarships of \$35.00 a year each for four years in the Academy are offered to pupils in each Township of Summit County who complete the common school course in the country schools. These scholarships are awarded to the two pupils in each township passing the best examination before the County Board of School Examiners, under the provisions of the Patterson Law.

Students winning the High School or Township Scholarship must begin their course of study not later than one year from the opening of the following school year.

EXPENSES.

Fixed Charge for each student as follows:

COLLEGE.

TUITION, LIBRARY AND STUDENT ACTIVITY FEES:

Sixteen hours or more a week, each half-year.....	\$37.50
Five to eight hours, inclusive.....	20.00
Four hours or less	12.00
Graduation Fee	5.00

LABORATORY FEES:

CHEMISTRY, 351, 352, 353, 354, 357 and 358, each half-year..	\$ 5.00
CHEMISTRY, 355 and 356, each.....	8.00
RUBBER CHEMISTRY, 363 and 364, each.....	15.00
PHYSICS, 341 and 342, each.....	2.50
PHYSICS, 343 and 344, each.....	1.50
BOTANY, 405 and 406, each.....	2.50
ZOOLOGY, 401 and 402, each.....	2.50
GEOLOGY, 409	2.50
PHYSIOLOGY, 407 and 408, each.....	3.50
EMBRYOLOGY	2.50
SURVEYING	2.00

ACADEMY.

TUITION, LIBRARY AND STUDENT ACTIVITY FEES:

Three studies or more each half-year.....	\$25.00
Two Studies	15.00
One Study	10.00

PHYSICAL LABORATORY FEE—Each half-year.....	1.50
CHEMICAL LABORATORY FEE—Each half-year.....	3.00
PHYSIOGRAPHY LABORATORY FEE—Each half-year.....	.50
BOTANY LABORATORY FEE—Each half-year.....	.50

The fee for a degree is payable on or before the Monday before Commencement Day.

No tuition or other fees will be refunded except for absence on account of protracted sickness, and in such cases no reduction will be made in term bills if the student maintains his class standing.

To students working in the chemical laboratory in the college any unused balance of their deposits will be returned at the end of the year.

For more detailed information in regard to College entrance courses and expenses, address A. B. CHURCH, Pres., or C. R. OLIN, Secretary.

For more detailed information regarding Buchtel Academy, see page 97, and address the Principal or Pres. A. B. CHURCH.

YOUNG WOMEN.

The entire necessary living expense in Curtis Cottage is \$4.50 a week; bills rendered and payable at the end of each month.

All women students living and boarding away from home must live in the Cottage unless excused by the faculty.

The faculty reserves the right to assign two students to a room.

Cottage occupants supply their own bed linen, towels, toilet soap and table napkins; and also window draperies and rugs, if desired.

To a limited number of women students opportunities are given for self help in the Cottage.

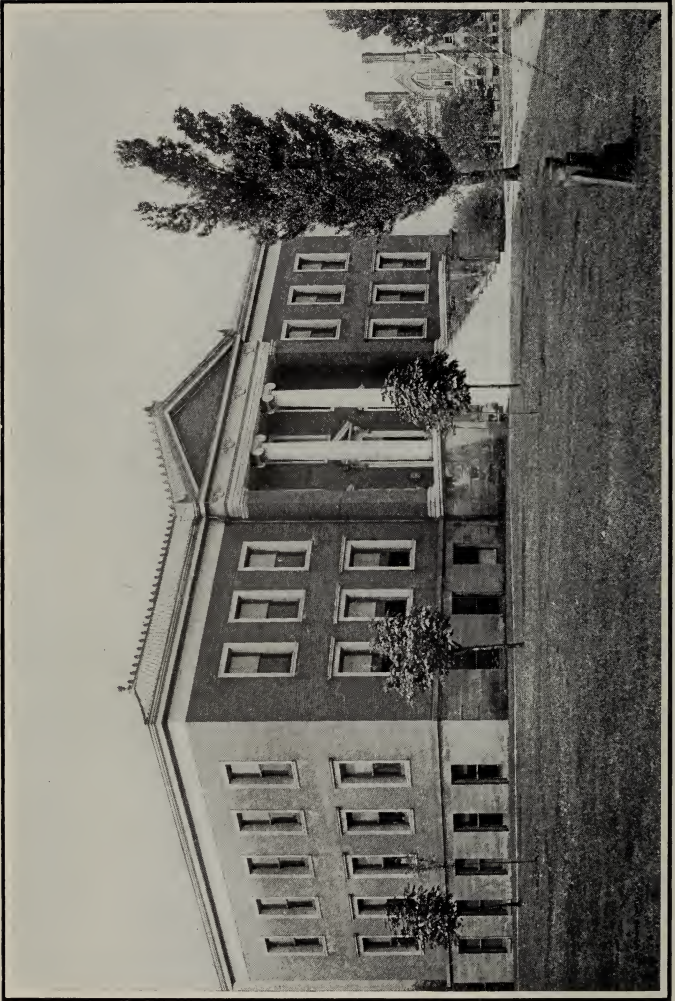
YOUNG MEN.

The College does not at present provide dormitories for young men, but the faculty gives special care to the placing of young men in good families, with pleasant and comfortable home surroundings and conveniences, and takes a kindly supervisory interest in their student life.

Rooms furnished, heated and lighted can be secured within walking distance of the College for \$1.00 a week and upwards with two in a room; with one in a room, for \$1.50 and upwards.

Good table board can be secured at \$3.50 a week.

Abundant opportunities for self help in the city are offered young men to help defray the expenses of room and board, so that the living expenses of young men run from \$1.00 a week upwards.



BUCHTEL HALL

BUCHTEL
COLLEGE

FACULTY, INSTRUCTORS AND OFFICERS.

1911-1912

COLLEGE.

A. B. CHURCH, A. M., D. D., LL. D.,

PRESIDENT

Messenger-Professor of Mental and Moral Philosophy

CHARLES M. KNIGHT, A. M., Sc. D.,

DEAN OF THE FACULTY

Buchtel-Professor of Chemistry

JOSEPH C. ROCKWELL, A. M., Ph. D.,

Professor of Latin and Greek

CHARLES BROOKOVER, M. S., Ph. D.,

Professor of Biology and Geology

OSCAR E. OLIN, A. M.,

*Professor of Economics and History, and Instructor in
Mental and Moral Philosophy*

PARKE R. KOLBE, A. M., Ph. D.,

Hilton-Professor of German Language and Literature

ALBERT I. SPANTON, A. M.,

Pierce-Professor of English

SARAH DEMAUPASSANT PLAISANCE, A. M.,

Professor of Romance Languages

FRANCIS J. HOLDER, A. M., Ph. D.,

Ainsworth-Professor of Mathematics, Astronomy and Physics

CHARLES R. OLIN, M. S.,

Assistant Professor of Mathematics

CHARLES BULGER, Ph. B.,
Acting Professor of German Language and Literature

HEZZLETON E. SIMMONS, B. S.,
Assistant Professor of Chemistry

MARGARET I. WILSON, A. M.,
Assistant Professor of English

CARITA McEBRIGHT, A. B.,
Instructor in Oratory

ELIZABETH M. WEAVER, A. B., M. D.,
Lecturer to Women on Hygiene and Physical Training

FRANK HAGGERTY, LL. B.,
Physical Director and Athletic Coach

HAROLD HAINES,
Assistant in Biology

PETER VITTEL,
Assistant in German

MAX MORRIS,
Assistant in Mathematics

ELLERY T. HOCH,
Assistant in Physics

FLOY LYON
Assistant in English

HALLIE TILLSON, Ph. B.,
Librarian

CATHARINE BLANCHARD,
Librarian

COLLEGIATE COURSES.

The college year is divided into two terms of nineteen weeks each. It is expected that students be present on the opening day of the term, and they are not allowed to prolong their recesses beyond the specified day.

THREE COURSES OF STUDY.

The College offers three regular courses of study, requiring the same amount of preparatory work, 15 units, and each requiring 128 term hours for graduation, or the equivalent of four years of study in the College. In keeping with the trend of higher education extensive opportunities for elective work are offered. These courses are:

1. The Classical Course, the usual course of that name, requiring extensive work in the Ancient Languages, and offering electives in Modern Languages, Mathematics, Latin, Greek, Literature, Philosophy and Science. This course leads to the degree of Bachelor of Arts.

2. The Philosophical Course, requiring the same work in Latin as the Classical Course or accepting an equal substitute of French, substituting the study of German for Greek, and offering the same range of electives as the Classical Course. This Course leads to the degree of Bachelor of Philosophy.

3. The Scientific Course, in which the language training is mostly confined to Latin, German or French and the English language. More preparatory work in the sciences is required for admission. This course is entirely on a footing with the other courses, offering wide training in Mathematics and the Sciences, while with the liberal use of electives, the student is enabled to cover much of the ground of the other courses. This course leads to the degree of Bachelor of Science.

ADMISSION AND RECORD.

Testimonials of good moral character must be presented by all applicants.

Students coming from other institutions of learning must furnish certificates of honorable dismissal.

Each candidate for college admission must have had at least a full high school preparation, or college preparatory course, amounting to 15 units and embracing the specific subjects named for college entrance.

Admission is by examination or on certificate.

In place of entrance examinations the following certificate plans will be accepted:

I. The certificate of principals of approved high schools and academies will admit students to the Freshman class on probation, and such statement must be a certification of the specific subjects in which the candidate has passed satisfactory examinations covering the requirements as stated for college entrance. Such certificate must be filed with the Committee on Classification by the candidate on application for entrance. Blank forms for the record of such work will be furnished on application to the President or Secretary of the Faculty.

II. The pass-cards, certificates and academic diploma of the State Board of Regents of New York State for the subjects which they cover will be accepted for college entrance on probation. Such credentials will not, however, be accepted for **advanced standing**.

No student will be admitted to the Freshman class who has an entrance deficiency of more than one unit, or the equivalent of a year's work in one study.

Students admitted on probation, after reasonable trial will be advanced to full class standing on satisfactory evidence of ability and determination to maintain their class work.

Students having completed a course in Buchtel Academy will be admitted to the corresponding course of the College without further examination.

Arrangements can be made by the students for private instruction for the removal of conditions.

ADVANCED STANDING.

Applicants for advanced credit, who do not present satisfactory grades from other colleges, shall be examined in the courses in question and receive full credit on the successful passing of such examinations.

Students presenting High School credits above and beyond the entrance requirements for College will be allowed college credit at the rate of fifty per cent. in term hours for High School work, provided that it results in a full credit in term hours and also provided that the student shows the ability to carry advanced work.

SPECIAL STUDENTS.

All students are advised to pursue a regular course of study, even if it cannot be completed.

But persons of proper age and character may be admitted as special students, not candidates for a degree, on the regular entrance requirements, if in the judgment of the Faculty, they are capable of sustaining themselves in class, and may elect only such studies as they are qualified to pursue. They shall be required to confine themselves to these particular courses. They must file with the Committee on Classification certificates of their previous work.

Thus an opportunity is offered to a considerable number of young people who do not wish to spend time for a full course, but who desire some college work. Those preparing to teach, those fitting for business, or those who intend to give time to music or art, are especially thus accommodated. Such students will also find themselves proportionately advanced, should they later decide to take a regular course.

On the completion of their studies, such students will be granted a certificate stating the work completed.

REGULATIONS.

The following rules are to be observed by all students:

1. Required for degree, 128 term hours; one term hour meaning one recitation or two hours of laboratory work per week for one semester.

2. The graduating thesis, if presented, shall be taken in the subject chosen as the student's major and shall count for two term hours, if carried satisfactorily beyond the regular classroom work.

3. Sixteen hours a Semester are counted full work for a student.

4. To prevent an aimless dissipation of time and energy each student is required to choose, at the beginning of the Sophomore year, his *major* group of studies with its required minors. The professor of the department in which the major is given will be the personal advisor of the student choosing that *major* in planning the remainder of his course.

5. No student is allowed to take more than 18 hours nor less than 14 hours a week, a Semester, without consent of the Faculty.

6. Students to be allowed to take more than 18 hours of work any semester must have made an E grade in at least three-fourths of their work the previous year. No student will be allowed to take more than 20 hours of work in any semester.

7. No credit will be given toward graduation for less than a full year's work in beginning languages, and first year chemistry.

8. Students are required to hand to the Secretary of the Faculty, at least two weeks before the opening of any semester, a list of their elective studies for that semester.

9. No student is allowed to drop a study after the opening of a semester without the consent of the Committee on Classification.

10. No student will be allowed to postpone a required study, or take a study in place of those prescribed, without permission of the Faculty.

11. No student will be allowed to change his election of studies for any semester without permission of the Committee on Classification.

Students are advised to take fundamental studies early in the course, i. e., in the Sophomore year,—such studies as are required in preparation for further work; also to follow lines of work rather than isolated studies.

12. During the course of study, unannounced examinations are held at the discretion of the instructors, and announced examinations are required in case of absence or failure.

13. In case of failure in term examinations, the student may have one trial in private examination within two weeks; if he fails in this the subject must be taken over in class, or the grade made in some equivalent course.

14. The thesis for graduation if presented shall be handed to the instructor in charge on or before the beginning of the Senior vacation.

15. A record of each student's standing is kept, which may be examined by committees, trustees, parents, and friends of the College.

16. Reports of the grades of all students are sent to parents or guardians at the close of each semester.

Rules Governing Class Absences.

In Effect the First Day of the Term.

17. No unexcused absences will be allowed. One unexcused absence in any subject per semester shall subject the student to special final examination in that subject. Two unexcused absences in any class per semester shall exclude the student from that class.

18. No student may be excused immediately before or after any recess except by vote of the Faculty.

19. Excuses shall be granted by the President only, or by such Faculty officer as may be designated by him during his absence from the city. The student must present a written excuse from the President to the instructor in charge on the day of his

reappearance in class; otherwise the absence shall stand as unexcused.

20. Any student having absences, in any subject, equivalent to the number of times that subject is recited in two weeks of the term, shall make up that work by special examination at the direction of the instructor in charge. Any work lost by reason of absences, may be required at the discretion of the instructor.

21. All omitted written work, laboratory work, tests and examinations must be made up as directed by the instructor.

Chapel Absences.

22. Absences from chapel any week, in order to be excused, must be explained to the President by Tuesday of the succeeding week or they will stand as unexcused absences. Six unexcused absences from chapel will subject the student to suspension from College by the President, and readmission can be gained only by a vote of the Faculty after being petitioned by the student suspended.

Class Conditions.

23. All class conditions incurred previous to the Senior year must be made up by the student in a manner satisfactory to the instructor in charge before the end of the first succeeding semester or the subject will have to be taken over in class, or, if elective work, an equivalent credit in term hours may be made in some other course.

Senior Conditions.

24. Students having conditions in subjects taken must remove these by the close of the first month of the last term of the senior year or they will not be considered candidates for graduation.

Class Promotions.

25. Requirements for admission to the Freshman Class, the same as stated in the catalogue.

26. Freshmen will be promoted to the Sophomore Class whenever they have gained 29 term hours on Freshman work and removed all preparatory conditions.

27. Sophomores will be promoted to the Junior Class whenever they have gained 61 term hours and removed all Freshman conditions.

28. Juniors will be promoted to the Senior Class whenever they have gained 96 term hours and removed all conditions.

TERMS OF ADMISSION.

Unconditional requirements, (all courses) : 15 units.

A unit is a full year's work in a subject with recitation periods of one hour held four times a week, or 45 minutes held five times a week.

CLASSICAL COURSE.

The candidate must present:

English (page 45)	3 units
Mathematics (page 46)	3 units
Latin (page 47)	4 units
General History (page 50)	1 unit
Elective (from the subjects on pages 45 to 50).....	4 units

PHILOSOPHICAL COURSE.

The candidate must present:

English (page 45)	3 units
Mathematics (page 46)	3 units
Foreign Languages (page 47)	4 units
General History (page 50)	1 unit
Elective (from the subjects on pages 45 to 50).....	4 units

SCIENTIFIC COURSE.

The candidate must present:

English (page 45)	3 units
Mathematics (page 46)	3 units
Foreign Languages (page 44)	4 units
Sciences (page 49) [one unit must be Chemistry or Physics].....	2 units
Elective (from the subjects on pages 45 to 50).....	3 units

In the Philosophical and Scientific Courses two units at least must be of one language. Not less than a full unit *in the beginning* of any language will be accepted toward this requirement.

For statement of prerequisite entrance requirements for the several major elective courses see pages 53 and 54.

ELECTIVE SUBJECTS.

The elective work for admission to any of the three courses may be made from the following subjects or their equivalents, details of which will be found on the pages referred to:—

Astronomy (page 47)	$\frac{1}{2}$ unit
Botany (page 49)	1 or $\frac{1}{2}$ unit
Chemistry (page 49)	1 unit
Civics (page 50)	$\frac{1}{2}$ unit
History, General (page 50)	1 unit
History, English (page 50)	1 or $\frac{1}{2}$ unit
History, Advanced U. S. (page 50)	$\frac{1}{2}$ unit
Physics (page 49)	1 unit
Physical Geography (page 50)	1 or $\frac{1}{2}$ unit
Physiology (page 50)	$\frac{1}{2}$ unit
Zoology (page 49)	1 or $\frac{1}{2}$ unit

ENTRANCE AT MID-YEAR.

Students graduating from High Schools in January or February will find it to their advantage to enter college at once, as they can pursue their studies without loss of time and complete the college course in four years or less, depending on the preparation and efficiency of the student.

If a student has had two or more years of German or four years of Latin, he can enter at once any of the following courses.

Latin 26 (3 h.) M., W., F., 7:45.

German 104 (3 h.) M., W., F., 7:45.

German 106 (2 h.) Tu., Th., 10:45.

Hist. of W. Europe 272 (3 h.) Tu., Th., S., 7:45.

Pol. Sc. 252 (2 h.) Tu., Th., 8:40.

Logic 206 (3 h.) Tu., Th., S., 9:50.

English 56 (3 h.) M., W., F., 8:40 and at 9:50.

Chemistry 354 (4 h.) Th., F., 10:45, and Tu. and W., 1:00 to 2:45 p. m.

Students who have not had German and who do not wish to continue their Latin, can also take full work from the above schedule.

At the beginning of the following fall the student will be assigned to the regular freshman work of one of the three courses and can pursue his studies without irregularity.

DEFINITION OF UNITS.

Following is a detailed statement of the requirements in each of the various subjects that may be offered for admission to college:

English, 3 Units.

The College Entrance Requirements in English, practically uniform throughout the United States, are as follows:

For 1910, 1911, 1912.

Required for Careful Study:—Shakespeare's "Macbeth," Milton's "Lycidas," "Comus," "L'Allegro," and "Il Penseroso;" Burke's "Speech on Conciliation with America," or Washington's "Farewell Address," and Webster's "First Bunker Hill Oration," Macaulay's "Life of Johnson," or Carlyle's "Essay on Burns."

Required for General Reading and Practice:—**GROUP I.**—(*two* to be selected): Shakespeare's "As You Like It," "Henry V.," "Julius Cæsar," "The Merchant of Venice," "Twelfth Night."

GROUP II.—(*one* to be selected): Bacon's "Essays," Bunyan's "The Pilgrim's Progress," Part I.; the "Sir Roger de Coverley Papers" in *The Spectator*, Franklin's "Autobiography."

GROUP III.—(*one* to be selected): Chaucer's "Prologue," selections from Spenser's "Færie Queene," Pope's "The Rape of the Lock," Goldsmith's "The Deserted Village," Palgrave's "Golden Treasury" (First Series), Books II. and III. with special attention to Dryden, Collins, Gray, Cowper and Burns.

GROUP IV.—(*two* to be selected): Goldsmith's "The Vicar of Wakefield," Scott's "Ivanhoe" and "Quentin Durward," Hawthorne's "The House of the Seven Gables," Thackeray's "Henry Esmond," Mrs. Gaskell's "Cranford," Dickens's "A Tale of Two Cities," George Eliot's "Silas Marner," Blackmore's "Lorna Doone."

GROUP V.—(*two* to be selected): Irving's "Sketch Book," Lamb's "Essays of Elia," De Quincey's "Joan of Arc" and "The English Mail Coach," Carlyle's "Heroes and Hero Worship," Emerson's "Essays" (Selected), Ruskin's "Sesame and Lilies."

GROUP VI.—(*two* to be selected): Coleridge's "The Ancient Mariner," Scott's "The Lady of the Lake," Byron's "Mazeppa" and "The Prisoner of Chillon," Palgrave's "Golden Treasury" (First Series), Book IV., with

special attention to Wordsworth, Keats and Shelley; Macaulay's "Lays of Ancient Rome," Poe's Poems, Lowell's "The Vision of Sir Launfal," Arnold's "Sohrab and Rustum," Longfellow's "The Courtship of Miles Standish," Tennyson's "Gareth and Lynette," "Launcelot and Elaine," and "The Passing of Arthur;" Browning's "Cavalier Tunes," "The Lost Leader," "How They Brought the Good News from Ghent to Aix," "Evelyn Hope," "Home Thoughts from Abroad," "Home Thoughts from the Sea," "Incident of the French Camp," "The Boy and the Angel," "One Word More," "Herve Riel," "Pheidippides."

Equivalent readings may be accepted at the option of the instructor.

Students should bring a written statement from the principal or superintendent of the school attended, stating definitely the books read and the amount of time given to the work. They should also bring note-books or any other evidences of the work done.

Three years, with five recitations a week, should be given to the preparation in English, the work in Rhetoric and Composition being done simultaneously with the reading and study of the required English and American Classics.

Students whose work proves defective in grammar, punctuation, or sentence structure will not be allowed to remain in the class in Freshman Rhetoric, but will be assigned work in the Academy until the deficiency is made up.

MATHEMATICS AND ASTRONOMY.

Arithmetic, Algebra, Plane and Solid Geometry are required for entrance into all courses. Astronomy may be offered as one of the electives in any course, but it is required in none.

Arithmetic.

A thorough, practical acquaintance with Arithmetic is a prerequisite for all work in Mathematics. Accuracy and rapidity in using the four fundamental operations, addition, subtraction, multiplication, and division, upon decimal and common fractions as well as upon whole numbers is required. It is desirable that the student may have studied a book that makes some use of algebraic symbols.

Algebra, 1 1/2 Units.

The work in Algebra should include the following subjects: Fundamental operations, factors, multiples, fractions, simple equations, methods of elimination, problems, interpretation of solutions, involution, evolution, surds, exponents, complex numbers, quadratic equations, theory of quadratic equation, simultaneous quadratics, binomial theorem for positive integral exponents, ratio, proportion, variation, series and logarithms.

It is suggested that the time spent in preparing to meet this requirement be five 55-minute periods per week for a year and a half. It is further suggested that the work of the last half-year be done late in the preparatory school course in order that there may be close and ready articulation with the

required mathematics of the freshman year in college. It is especially desirable that the student come to his college work with habits of neatness and accuracy well formed, and that he have some sense of mastery over so much of mathematics as he may have studied.

Geometry, 1 1/2 Units.

Plane and Solid Geometry. The set propositions required are those found in the older text books. Among the topics required may be mentioned: Plane rectilinear figures; the circle and the measure of angles; similar polygons; areas, regular polygons; the measure of the circle, the relation of lines and planes in space; the properties and measure of prisms, pyramids, cylinders, and cones; the sphere, and the spherical triangle.

From the demonstration of many original propositions and the solution of many original problems the student should have gained a fair degree of confidence in his own ability to build up a geometrical proof. Accuracy of statement and elegance of form are to be emphasized.

It is suggested that the time spent in preparing in Geometry be one and one-half school years and that the work of the last half-year come in the third or fourth year of the preparatory course.

Astronomy, 1/2 Unit.

A thorough knowledge of the fundamental facts and principles of Astronomy is required. Familiarity with so much of the science as is contained in Young's Elements of Astronomy will suffice.

FOREIGN LANGUAGES.

Latin. 1, 2 3 or 4 Units.

Four units of at least four recitations a week are required for entrance to the Classical Course. One, two, three or four units may be offered for entrance in the Scientific or Philosophical courses, subject to the requirement that at least two units must be offered in some one foreign language.

First Year. (One Unit.) Collar and Daniell's First Latin Book or Bennett's Latin Lessons with twenty-five pages of Viri Romae or an equivalent.

Second Year. (One Unit.) Cæsar's De Bello Gallico, Books I.-IV., or an equivalent, with thirty lessons in Prose Composition.

Third Year. (One Unit.) Cicero's Orations, four against Catiline, Poet Archias, the Manilian Law, Verres and Roscius. For the last two an equivalent may be offered. Thirty lessons in Latin Prose Composition based upon Cicero.

Fourth Year. (One Unit.) Virgil's Aeneid, Books I.-VI.

Grammar, including Prosody (New Allen and Greenough, Bennett or Harkness).

Greek. 1 or 2 Units.

One or two years of Greek may be offered for entrance.

First Year. Beginners' Lessons in Greek.

Second Year. Xenophon's Anabasis.

German. 1, 2, 3 or 4 Units.

One, two, three or four years of German may be offered for admission to the Scientific or Philosophical courses. Candidates must present from former teachers a full statement of work covered, texts used and time spent. No student will be allowed to enter a higher course than German 104 without examination or personal conference with the instructor in charge of the German Department.

The following work should be offered for one, two, three or four years' credit, respectively:

One Year. Joynes-Meissner's Grammar (Part I.) Fair equivalents in standard beginners' books will be accepted as substitutes. One hundred and fifty pages of simple German, in which should be embraced some of the best known songs and ballads and at least one longer story, such as Immensee, Germelshausen or Hoeher als die Kirche. The candidate should be able to pronounce German correctly, to understand and form simple sentences and to write German script.

Two Years. In addition to the requirements for the first year the candidate should by review have accurately familiarized himself with the principles of grammar and should be able to translate with readiness easy connected English prose into German.

He should be able to write German from dictation and should have read at least one of the easier classics besides two hundred pages of easy prose.

Three Years. In addition to the requirements for the first two years the candidate should have read at least two more classic dramas, and at least one hundred pages of more difficult prose, such as Die Harzreise or selections from Dichtung und Wahrheit, and should be able to discuss these freely in the German language. He should show the results of an additional year's drill in translating more difficult English prose into German either by writing or orally, and should have had instruction in the literary history of Germany in the later Classic and Modern Period.

Four Years. The work of this year should be a continuation on the groundwork of the first three years and should include at least eight hundred pages of reading, although a less number may be presented if such difficult works as Faust have been attempted. In addition the candidate should have a thorough knowledge of the history of German literature from the earliest periods, and should know something of Germany and modern German life. It is advised that some subjects of general practical interest such as German schools, stores, meals and amusements be treated.

French. 1 or 2 Units.

One or two years of French may be offered for admission to the Scientific or Philosophical courses. Candidates must present from former teachers a full statement of work covered, texts used and time spent.

The following work should be offered for one or two years' credit, respectively:

One Year. A thorough knowledge of the leading principles of French grammar as set forth, for instance, in Fraser and Squair's. An accurate acquaintance with the more common irregular verbs. The ability to translate easy English prose into French and to read easy French at sight. The ability to pronounce French and the careful reading of two hundred pages of less difficult French.

Two Years. In addition to the above the candidate should know accurately all irregular verbs in common use and should be able to read a page of French with accurate pronunciation. He should have read at least four hundred pages of various authors which should include two or three classic dramas. He should have had some practice in writing from dictation and should be able to translate ordinary English prose into French.

SCIENCES.

Physics. 1 Unit.

Recitations at least four times per week for a school year, together with a note-book, containing the description and results of at least fifty experiments, neatly recorded.

Chemistry. 1 Unit.

Recitations three times per week for a school year, together with laboratory practice for two hours per week and a note-book containing an account of all experiments made by the student's own hands, with sketches of the apparatus used.

Zoology. 1/2 or 1 Unit.

To count for one unit, the course should extend throughout a year of 36 weeks, four times per week, reciting at least 45 minutes. One-fourth should be laboratory work in dissections and drawings. Drawings and notes should be presented to show the nature of the work done. Davenport or any good elementary text.

Botany. 1/2 or 1 Unit.

If offered for one unit it should consist of thirty-six weeks of work, four times per week, at least one-fourth of which should be of the nature of field or experimental work and dissections. Andrew's or Bergen's Botany. Note-book required.

Physiology. 1/2 Unit.

Only work done above the grades will count for entrance. It should consist of eighteen weeks' work, four times per week, of at least 45-minute periods each. Not less than about twenty hours of laboratory work, of dissections, drawings, and experiments should be offered. Martin's Human Body (briefer course) revised by Fitz is recommended as a good text.

Physical Geography or Physiography. 1/2 or 1 Unit.

Four times per week for one-half year. A good text book, such as Davis' Physical Geography, should be supplemented by field excursions and laboratory, to cover about one-fourth of the time. Note-book required.

NOTE:—In all science subjects two periods of laboratory or experimental work should count as the equivalent of one recitation.

HISTORY AND CIVICS.

Advanced U. S. History. 1/2 Unit.

One half-year's work with any approved High School text book.

General History. 1 Unit.

The equivalent of one year's work in Ancient and Modern History, using any approved High School or Academy text.

English History. 1/2 or 1 Unit.

One half-year's work in High School or Academy, using any standard text.

Civics. 1/2 Unit.

One half-year's work in Civil Government. Only High School or Academy work accepted.

REQUIRED
AND
ELECTIVE
COURSES

REQUIRED STUDIES.

1911-1912.

The following table shows the work of the Freshman year, for the various courses. All of the work is required:

CLASSICAL COURSE.

First Half-Year.	Term Hrs.	Second Half-Year.	Term Hrs.
Greek 1	4	Greek 2	4
Latin 13	3	Latin 14	3
Mathematics 301	4	Mathematics 302	3
Chemistry 351 or 353.....	4	or English 56	3
Rhetoric 51	2	Chemistry 352 or 354	4
Gymnasium	1	Rhetoric 52	2
		Gymnasium	1

PHILOSOPHICAL COURSE.

First Half-Year.	Term Hrs.	Second Half-Year.	Term Hrs.
German.....at least 3 hours		German.....at least 3 hours	
Latin 13	3	Latin 14	3
or French 151	4	or French 152	4
Mathematics 301	4	Mathematics 302	3
Chemistry 351 or 353.....	4	or English 56	3
Rhetoric 51	2	Chemistry 352 or 354	4
Gymnasium	1	Rhetoric 52	2
		Gymnasium	1

SCIENTIFIC COURSE.

First Half-Year.	Term Hrs.	Second Half-Year.	Term Hrs.
Rhetoric 51	2	Rhetoric 52	2
German.....at least 3 hours		German.....at least 3 hours	
Mathematics 301	4	Mathematics 302	3
Chemistry 351 or 353.....	4	Chemistry 352 or 354	4
Mechanical Drawing 331.....	4	Descriptive Geometry 332	4
or French 151	4	or French 152	4
Gymnasium	1	Gymnasium	1

MAJORS AND MINORS.

A careful study of the following will show the list of majors, with the required minor for each, which may be elected, and the prerequisite entrance requirements, (which must be included in the student's preparation for college), necessary to enter each major. All major and minor work must be outside of the student's Freshman requirements.

Twenty-four term hours above the Freshman year is the minimum requirement for a major.

Leading to the Degree of A. B.

Majors.

I. In Greek.

Twenty-four term hours of Greek above the Freshman requirements constitute a major in Greek. The History of Greek Sculpture will count toward this major.

(See page 61.)

II. In Greek and Latin.

Of the twenty-four term hours necessary for this major, twelve term hours at least must be in the Greek language above the Freshman year.

III. In Latin.

Twenty-four term hours of Latin above the Freshman requirements constitutes a major.

(See page 63.)

IV. In German.

A minimum of twenty-four term hours of German above the Freshman year constitutes a major.

(See page 70.)

V. In Romance Languages and German.

Eighteen hours of Romance Language and six hours of German above the Freshman year constitute a major.

(See pages 70 and 76.)

VI. In English Literature.

A minimum of twenty-four term hours above Freshman requirements constitute a major in English Literature.

(See page 66.)

VII. In English Literature and Public Speaking.

Ten term hours of public speaking and fourteen of English Literature above the Freshman requirements constitutes this major.

(See page 66.)

Special Prerequisite entrance requirements for this course see Page 47.

Latin 4 units
General History 1 unit

Same as Major I.

Latin, 4 units of the required 15.

Required Minors. Term Hrs.
English 7
Science 6
Philosophy, or Logic
and Economics 6

Same as Major I.

Leading to the Degree of Ph. B.

Same as Major I.

Same as Major I.

Same as Major I.

Science 6
English History 6
Philosophy, or Logic
and Economics 6
Same as for Major VI.

Leading to the Degree of Ph. B.

VIII. In Philosophy and Economics. Twelve term hours each. (See page 77.)	Science6 English7	General History1 unit
IX. In Economics and History. Twelve term hours each. (See page 79.)	Foreign Language6 Same as Major VIII.	General History1 unit
X. In History and Philosophy. Twelve term hours each. (See page 77.)	Same as for Major VIII.	General History1 unit

Leading to the Degree of B. S.

XI. In Chemistry and Physics. Eighteen term hours in Chemistry above Freshman requirements and second semester of Scientific Physics. (See page 87.)	English7 Biology and Geology6 Philosophy, or Logic and Economics6 English7	
XII. In Mathematics and Physics. Two term hours of Surveying. Four term hours of Analytic Geometry. Six term hours of Differential and Integral Calculus. Twelve term hours of Scientific Physics. (See pages 82 and 86.)	Science6 Modern Language or Philosophy or Economics and Logic6	
XIII. In Biology and Geology. Twenty-four term hours. (See page 90.)	English7 Chemistry or Physics6 Philosophy, or Logic and Economics6 English7 Physics8 Philosophy, or Logic and Economics6	
XIV. In Biology and Geology and Chemistry. Twelve term hours in Chemistry above the Freshman requirements and an equal amount of Natural Science. (See page 90.)		

SCHEDULE
OF CLASSES

SCHEDULE FOR FIRST HALF-YEAR.

1912-1913.

	Monday	Tuesday	Wednesday
	Cicero 25	(Cicero 29)	Cicero 25
	Bible Lit. 63	Fresh. Rhet. 51a	Bible Lit. 63
7:45	Sec. Year Ger. 103a	Chaucer 57	Sec. year Ger. 103a
	First Year French 151a	Mod. Ger. Lit. 109	First year French 151a
	Psych. 201	(Faust 117)	Psych. 201
	Anal. Geom. 305	Amer. Hist. 271	Anal. Geom. 305
	Calculus 307	Anal. Geom. 305	Calculus 307
	Invert. Zool. 401	Calculus 307	Invert. Zool. 401
		Hist. of Zool. 403	
	Homer 3	(Greek Sculpt. 17)	Homer 3
	Plato 5	Class. Myth. 19	Plato 5
	(Sophocles 7)		(Sophocles 7)
	Shakespeare 59		Shakespeare 59
	Element Pub. Spk. 71	Adv. Pub. Spk. 73	Element Pub. Spk. 71
8:40	Goethe's Youth 107	Hist. Ger. Lit. 111	Goethe's Youth 107
	(Schiller 115)	(Hist. of Ger. 119)	(Schiller 115)
	(Lessing 123)	(French Class. Per. 159)	(Lessing 123)
	First year Span. 171	Victor Hugo 161	First year Span. 171
	Pol. Econ. 251	Fed. Govt. 253	Pol. Econ. 251
		College Algebra 301a	College Algebra 301a
		and b	and b
	Geol. 409	Botany 405	Geol. 409
	Greek Gram. 1	Greek Gram. 1	Greek Gram. 1
	Introd. Eng. Lit. 55	19 Cent. Eng. Lit. 61	Introd. Eng. Lit. 55
9:50	First year Ger. 101	First year Ger. 101	First year Ger. 101
	First year French 151b	First year French 151b	First year French 151b
	Hist. of Eng. 273		Hist. of Eng. 273
		Sci. Phys. 341	Sci. Phys. 341
		Physiol. 407	
	Livy 27	(Hist. Rom. Lit. 35)	Livy 27
	Suetonius 31	Rom. Priv. Life 37	Suetonius 31
	Fresh. Rhet. 51b	Argumentation 53	
	Sec. year Ger. 103b	German 105	Sec. year Ger. 103b
10:45	Sec. year French 153	(Fr. Short Story 155)	Sec. year French 153
	Ethics 203	Mod. French Prose 157	Ethics 203
	Descrip. Astron. 321		Descrip. Astron. 321
	(Descrip. Phys. 343)		(Descrip. Phys. 343)
		Adv. Gen. Chem. 351	Adv. Gen. Chem. 351
		Organic Chem. 357	
1:00	Physics 341		
to	Adv. Gen. Chem. 351	Ele. Gen. Chem. 353	Ele. Gen. Chem. 353
2:45	Botany 405	Invert. Zool. 401	Botany 405
1:00	Mech. Draw. 331 and	Mech. Draw. 331 and	Mech. Draw. 331 and
to	335b	335a	335a and b
3:30			
2:45	Qual. Anal. 355		Qual. Anal. 355
to	Quant. Anal. 359		Quant. Anal. 359
4:30	Quant. Anal. 361		Quant. Anal. 361

SCHEDULE FOR FIRST HALF-YEAR.

1912-1913.

	Thursday	Friday	Saturday
	(Cicero 29)	Cicero 25	(Cicero 29)
	Fresh. Rhet. 51a		
	Chaucer 57	Bible Lit. 63	
	Mod. Ger. Lit. 109	Sec. year Ger. 103a	
7:45	(Faust 117)		
	First year French 151a		
	Amer. Hist. 271	Psych. 201	Amer. Hist. 271
	Anal. Geom. 305	Anal. Geom. 305	
	Calculus 307	Calculus 307	
	Hist. of Zool. 403	Invert. Zool. 401	
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	(Greek Sculpt. 17)	Homer 3	
	Class. Myth. 19	Plato 5	
		(Sophocles 7)	
		Shakespeare 59	
	Ad. Pub. Spk. 73	Element Pub. Spk. 71	
	Hist. Ger. Lit. 111	Goethe's Youth 107	
8:40	(Hist. of Ger. 119)	(Schiller 115)	
	(Fr. Class. Per. 159)	(Lessing 123)	
	Victor Hugo 161	First year Span. 171	
	Fed. Govt. 253	Pol. Econ. 251	
	College Algebra 301a	College Algebra 301a	
	and b	and b	
	Botany 405	Geol. 409	
<hr/>			
	Greek Gram. 1	Lat. Prose Comp. 33	
	19 Cent. Eng. Lit. 61	Introd. Eng. Lit. 55	
	First year Ger. 101	Ger. Teacher's Course 113	
9:50	First year French 151b	(Hist. of Ger. Lang. 121)	
		(Goethe-Schiller Sem. 125)	
		Hist. of Eng. 273	
	Sci. Phys. 341	Sci. Phys. 341	
	Physiol. 407		
<hr/>			
	(Hist. Rom. Lit. 35)	Livy 27	
	Rom. Priv. Life 37	Suetonius 31	
	Argumentation 53	Fresh. Rhet. 51b	
	German 105	Sec. year Ger. 103b	
	(Fr. Short Story 155)	Sec. year French 153	
10:45	Mod. French Prose 157	Ethics 203	
		Descrip. Astron. 321	
		(Descrip. Phys. 343)	
	Ele. Gen. Chem. 353	Ele. Gen. Chem. 353	
<hr/>			
1:00	Physics 341		
to	Organic Chem. 357	Adv. Gen. Chem. 351	
2:45	Invert Zool. 401	Physiol. 407	
<hr/>			
1:00	Mech. Draw. 331 and		
to	335a and b		
3:30			
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2:45	Organic Chem. 357	Qual. Anal. 355	
to		Quant. Anal. 359	
4:30		Quant. Anal. 361	
		Physiol. 407 (till 4:00)	

SCHEDULE FOR SECOND HALF-YEAR.

1912-1913.

	Monday	Tuesday	Wednesday
	Pliny 26	(Virgil 30)	Pliny 26
	Amer. Poetry 64	Fresh. Rhet. 52a	Amer. Poetry 64
7:45	Sec. year Ger. 104a	Word Study 58	Sec. year Ger. 104a
		Mod. Ger. Lit. 110	
		(Mod. Ger. Drama 118)	
	First year French 152a	First year French 152a	First year French 152a
	Psychol. 202	Hist. of West Eur. 272	Psychol. 202
	Calculus 308	Calculus 308	Calculus 308
	Vert. Zool. 402	Embryology 404	Vert. Zool. 402
	Homer 4	(Greek Sculpt. 18)	Homer 4
	Demosthenes 6	Class. Archaeol. 20	Demosthenes 6
	(Thucydides 8)		(Thucydides 8)
	Introd. Eng. Lit. 56a		Introd. Eng. Lit. 56a
	Element. Pub. Spk. 72	Adv. Pub. Spk. 74	Element. Pub. Spk. 72
	Goethe in Weimar 108	Hist. Ger. Lit. 112	Goethe in Weimar 108
	(Schiller 116)	(Ger. Themes 120)	(Schiller 116)
8:40	(Ger. Post Class Writers 124)		(Ger. Post Class Writers 124)
	First year Span. 172	(French Class. Per. 160)	First year Span. 172
		Victor Hugo 162	
	Sociol. 254	Pol. Sci. 252	Sociol. 254
		Trig. 302a and b	Trig. 302a and b
		Surveying 304	Surveying 304
	Geol. 410	Botany 406	Geol. 410
	Xenophon 2	Xenophon 2	Xenophon 2
	Introd. Eng. Lit. 56b	19 Cent. Eng. Lit. 62	Introd. Eng. Lit. 56b
	First year Ger. 102	First year Ger. 102	First year Ger. 102
9:50	First year French 152b	First year French 152b	First year French 152b
	Hist. of Eng. 274	Logic 206	Hist. of Eng. 274
		Sci. Phys. 342	Sci. Phys. 342
		Physiol. 408	
	Terence 28	(Hist. Rom. Lit. 36)	Terence 28
	Horace 32	Rom. Priv. Life 38	Horace 32
	Fresh. Rhet. 52b	Argumentation 54	
	Sec. year Ger. 104b	German 106	Sec. year Ger. 104b
	Sec. year French 154	(Fr. Short Story 156)	Sec. year French 154
10:45		French Mod. Prose 158	
	Ethics 204	Economic Problems 256	Ethics 204
	Pract. Astron. 322		Pract. Astron. 322
	(Descrip. Phys. 344)		(Descrip. Phys. 344)
		Adv. Gen. Chem. 352	Adv. Gen. Chem. 352
		Organic Chem. 358	
1:00	Physics 342		
to	Adv. Gen. Chem. 352	Elem. Gen. Chem. 354	Elem. Gen. Chem. 354
2:45	Botany 406	Vert. Zool. 402	Botany 406
1:00	Mech. Draw. 332, 334	Mech. Draw. 332, 334	Mech. Draw. 332, 334
to	and 336b	and 336a	and 336a and b
3:30			
2:45	Quant. Anal. 356		Quant. Anal. 356
to	Quant. Anal. 360		Quant. Anal. 360
4:30			

SCHEDULE FOR SECOND HALF-YEAR.

1912-1913.

	Thursday	Friday	Saturday
	(Virgil 30)	Pliny 26	(Virgil 30)
	Fresh. Rhet. 52a		
	Word Study 58	Amer. Poetry 64	
	Mod. Ger. Lit. 110	Sec. year Ger. 104a	
7:45	(Mod. Ger. Drama 118)		
	First year French 152a		
	Hist. of West. Eur. 272	Psychol. 202	Hist. of West. Eur. 272
	Calculus 308	Calculus 308	
	(Embryology 404)	Vert. Zool. 402	
	(Greek Sculpt. 18)	Homer 4	
	Class. Archaeol. 20	Demosthenes 6	
		(Thucydides 8)	
	Adv. Pub. Spk. 74	Introd. Eng. Lit. 56a	
	Hist. Ger. Lit. 112	Element. Pub. Spk. 72	
	(Ger. Themes 120)	Goethe in Weimar 108	
8:40		(Schiller 116)	
		(Ger. Post Class Writers 124)	
	(French Class. Per. 160)	First year Span. 172	
	Victor Hugo 162		
	Pol. Sci. 252	Sociol. 254	
	Trig. 302a and b	Trig. 302 a and b	
	Surveying 304	Surveying 304	
	Botany 406	Geol. 410	
	Xenophon 2	Lat. Prose Comp. 34	
	19 Cent. Eng. Lit. 62	Introd. Eng. Lit. 56b	
	First year Ger. 102	Ger. Teachers' Course 114	
9:50	First year French 152b	(Hist. of Ger. Lang. 122)	
		(Goethe-Schiller Sem. 126)	
	Logic 206	Hist. of Eng. 274	Logic 206
	Sci. Phys. 342	Sci. Phys. 342	
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	(Hist. Rom. Lit. 36)	Terence 28	
	Rom. Priv. Life 38	Horace 32	
	Argumentation 54	Fresh. Rhet. 52b	
	German 106	Sec. year Ger. 104b	
	(Fr. Short Story 156)	Sec. year French 154	
10:45	French Mod. Prose 158		
	Economic Problems 256	Ethics 204	
		Pract. Astron. 322	
		(Descrip. Phys. 344)	
	Elem. Gen. Chem. 354	Elem. Gen. Chem. 354	
1:00	Physics 342		
to	Organic Chem. 358	Adv. Gen. Chem. 352	
2:45	Vert. Zool. 402	Physiol. 408	
1:00	Mech. Draw. 332, 334		
to	and 336a and b		
3:30			
2:45	Org. Chem. 358	Quant. Anal. 356	
to		Quant. Anal. 360	
4:30		Physiol. 408 (till 4:00)	

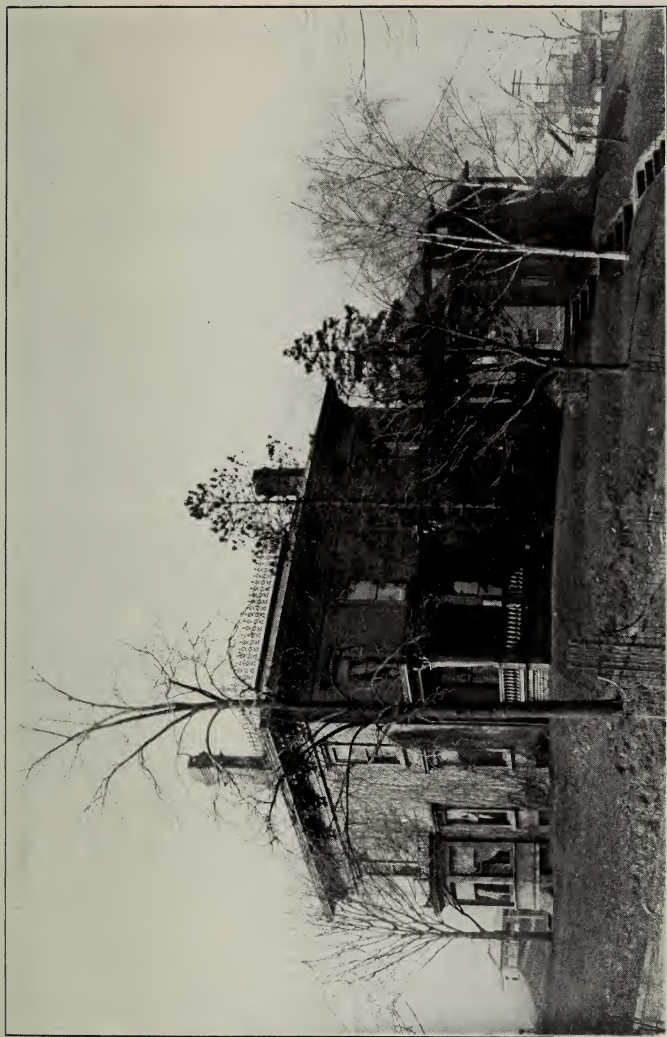
DEPARTMENTS OF INSTRUCTION.

The general system of numbering and arrangement is according to the following groups:

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PRESIDENT'S RESIDENCE

GREEK.

PROFESSOR ROCKWELL.

MISS ALICE RINES, INSTRUCTOR.

Major: The elective courses in Greek are 3, 4, 5, 6. Twenty-four hours elected above Freshman year constitute a major in Greek. The History of Greek Sculpture will count towards a major.

Major: Of the twenty-four hours necessary for a major in Greek and Latin, twelve hours at least must be of the Greek language above the Freshman year.

Courses 1 and 2 will count for college credit.

In the advanced courses the great masterpieces of prose and poetry are studied in their proper historical and literary setting, and the effort will be made during the three years' rotation of courses for the student to become more thoroughly acquainted with the lives and works of a small number of selected authors. As far as is admissable, some attention is given in connection with the regular work to Greek Private Life.

1. **Goodwin's Greek Grammar and Xenophon's Anabasis—(First Half-Year.)**
Mo., Tu., We., Th., 9:50. (Four term hours.)
2. **Xenophon (Anabasis, 3 books.)—(Second Half-Year.)**
Mo., Tu., We., Th., 9:50. (Four term hours.)
3. **Homer (Iliad Selections.)—(First Half-Year.)**
Mo., We., Fr., 8:40. (Three term hours.)
4. **Homer (Iliad Continued): (New Testament Greek.)—(Second Half-Year.)**
Mo., We., Fr., 8:40. (Three term hours.)
5. **Plato (Apology and Crito); Homer (Odyssey Selections.)—(First Half-Year.)**
Mo., We., Fr., 8:40. (Three term hours.)
6. **Demosthenes (De Corona.)—(Second Half-Year.)**
Mo., We., Fr., 8:40. (Three term hours.)

7. **Sophocles (Oedipus Rex).—(First Half-Year.)**
Mo., We., Fr., 8:40. (Three term hours.) Not given
1912-1913.
8. **Thucydides (Book VI.); Aristophanes Birds, (with special
reference to Greek Private Life.)**
Mo., We., Fr., 8:40. (Three term hours.) Not given
1912-1913.

CLASSICAL ARCHAEOLOGY.

PROFESSOR ROCKWELL.

17. **History of Greek Sculpture.—(First Half-Year.)**
Tu., Th., 8:40. (Two term hours.) This course will
count toward a major in either Latin or Greek. Not
given 1912-1913.

This has been planned as a general course and will not require work in Greek or Latin. It will consist largely of lectures. There will be a short introduction setting forth the relation of Greek Art to the Art of Egypt, Assyria and Phoenicia, and this will be followed by a discussion of the various periods and schools of Greek Sculpture and the more important artists. The subject will be illustrated by photographs and lantern-slides. Richardson's Greek Sculpture will be made the basis of the course, and some collateral reading in histories of art will be required. The ability to read German, though not absolutely necessary, will be decidedly advantageous.

Note-books of the students will be examined by the instructor from time to time.

18. **(Second Half-Year.)**
Tu., Th., 8:40. (Two term hours.) Continuation of
Course I. Not given 1912-1913.

19. **Classical Mythology.—(First Half-Year.)**
Tu., Th., 8:40. (Two term hours.)

A careful study will be made of the Greek myths and also how they are represented in vase paintings and in sculpture, with special reference to their use in English poetry.

20. **General course in Classical Archaeology.—(Second Half-Year.)**
Tu., Th., 8:40. (Two term hours.)

LATIN.

PROFESSOR ROCKWELL.

Four units in Latin are required of all students entering Freshman Latin.

The elective courses are 27 and 28, 31 to 34, 37 and 38.

Major: Twenty-four hours elected above Freshman year constitute a major in Latin.

The following arrangement of courses is suggested:

Sophomore year Latin 27 and 28 (six hours), and one lecture course; Latin 35 and 38 (four hours.)

Junior year Latin, 31 and 32, (six hours.)

Senior year Latin, 29 and 30, (six hours.)

The remaining hours may be taken in a lecture course, the History of Greek Sculpture, or Latin Prose Composition.

Major: Twelve hours each of Greek and Latin above the Freshman requirements constitute a major in Greek and Latin.

25. Cicero (De Senectute); Plautus (Menaechmi)—(First Half-Year.)

Mo., We., Fr., 7:45. (Three term hours.) Required of Classical Freshmen.

During the Freshman year a careful study is made of grammatical forms, syntax and idiomatic expressions, and written translations constitute a prominent feature of the work.

26. Pliny (Selected Letters.)—(Second Half-Year.)

Mo., We., Fr., 7:45. (Three term hours.) Required of Classical Freshmen.

27. Livy (Books XXI.-XXII.); Plautus Trinummus.— First Half-Year.)

Mo., We., Fr., 10:45. (Three term hours.) Courses 27 and 28 are open to students who have completed 25 and 26.

28. Terence (*Andria*); Horace (*Odes and Epodes.*)—(Second Half-Year.)
Mo., We., Fr., 10:45. (Three term hours.)
29. Cicero (*De Officiis, Selections.*)—(First Half-Year.)
Tu., Th., Sat., 7:45. (Three term hours.) Open to students who have completed 27 and 28. Not given 1912-1913.
30. Virgil (*Eclogues and Georgics, Selections.*)—(Second Half-Year.)
Tu., Th., Sat., 7:45. (Three term hours.) Not given 1912-1913.
31. Suetonius.—(First Half-Year.)
Mo., We., Fr., 10:45. (Three term hours.)
32. Horace *Satire* and Juvenal, *Selections.*—(Second Half-Year.)
Mo., We., Fr., 10:45. (Three term hours.)
33. Latin Prose Composition.—(First Half-Year.)
Fr., 9:50. (One term hour.)

During the first half-year a systematic study will be made of the Latin sentence and paragraph, but in the second half-year there will be the translation into Latin of connected passages of classic English.
34. Latin Prose Composition.—(Second Half-Year.)
Fr., 9:50. (One term hour.) Continuation of Course 21.
35. History of Roman Literature.—(First Half-Year.)
Tu., Th., 10:45. (Two term hours.) Not given 1912-1913.

First there will be a short survey of the laws in accordance with which the Latin language developed. Then the different forms and periods of Roman literature will be set forth by lectures. These will be supplemented by class readings from different authors.

36. History of Roman Literature.—(Second Half-Year.)
Tu., Th., 10:45. (Two term hours.) Continuation of Course 23. Not given 1912-1913.

37. **Roman Private Life and Social Institutions.**—(First Half-Year.)

Tu., Th., 10:45. (Two term hours.)

A course of lectures supplemented by some collateral reading of original and secondary authorities. Special subjects will be assigned for investigation.

38. **Roman Private Life and Social Institutions.**—(Second Half-Year.)

Tu., Th., 10:45. (Two term hours.) Continuation of Course 25.

VOCATIONAL COURSE.

- 39 and 40. **The teaching of Latin.**—(Throughout the year—two term hours.)

This course is given alternate years. It includes lectures on the different methods (German, English, American) of teaching Latin, discussions of the different beginner's books, and the principles and characteristics of the leading Latin Grammars. Practical exercises are given based on the authors read during the course.

ENGLISH.

PROFESSOR SPANTON.

MISS WILSON.

RHETORIC.

All the courses offered in Rhetoric are required.

51. **Freshman Rhetoric.**—(First Half-Year.)

Two sections. Tu., Th., 7:45; Mo., Fr., 10:45. (Two term hours.) Required of all Freshmen. A thorough review of the principles of style. Weekly themes. Text-book: Scott and Denney's Paragraph-Writing.

52. **Freshman Rhetoric.**—(Second Half-Year.)

Two sections. Tu., Th., 7:45; Mo., Fr., 10:45. (Two term hours.) Required of all Freshmen. The forms of prose discourse, especially narration, description, and exposition. Weekly themes. Text-book, as in Course 51.

53. **Argumentation.—(First Half-Year.)**

Tu., Th., 10:45. (Two term hours.) Required of all Sophomores. Weekly themes. Text-book: Foster's Argumentation.

54. **Argumentation.—(Second Half-Year.)**

Tu., Th., 10:45. (Two term hours.) Required of all Sophomores. Continuation of Course 53.

LANGUAGE AND LITERATURE.

PROFESSOR SPANTON.

Required work. In addition to the required work in Rhetoric, students in all courses must take, after the Freshman year, at least three hours' work in the department of English Language and Literature.

Majors. The minimum for a major in English Literature is twenty-four term hours; for a major in English Literature and Public Speaking, the minimum is ten term hours of Public Speaking and fourteen term hours of English Literature.

Order of Work. Courses 55 and 56 are prerequisite to the more advanced courses. Hence students who desire to take all or most of the work offered in English must elect these courses in their Sophomore year, and in no case should they be postponed to the Senior year unless a student be sure that he desires no further work in this department.

All students taking their majors in Science or Mathematics are urgently recommended to elect Literature 58.

The following courses will be offered in 1912-1913.

55. **General Introduction to English Literature—(First Half-Year.)**

Mo., We., Fr., 9:50. (Three term hours.)

The work includes:

(a) The history of English Literature. Text-book: Long's English Literature. Students will find other text-books helpful—Brooke, Pancoast,

Simonds, Halleck, Johnson, Moody and Lovett. Especially valuable for supplementary reading is Green's *Shorter History of the English People*.

(b) The reading of masterpieces illustrating literary types and representing the main movements in English Literature. Much reading is required; still more is recommended. Text-book: Newcomer and Andrews' *Twelve Centuries of English Prose and Poetry*.

56. General Introduction to English Literature.—(Second Half-Year.)

Two Sections: Mo., We., Fr., 8:40, for Freshmen who do not elect Trigonometry; Mo., We., Fr., 9:50, for Sophomores. (Three term hours.) A continuation of 55. Courses 55 and 56 cover in outline the entire field of English Literature, and they or their equivalent must precede the more advanced courses.

57. Chaucer.—(First Half-Year.)

Tu., Th., 7:45. (Two term hours.) A close study of the best of the *Canterbury Tales*, and a rapid reading of some other portions of Chaucer's work. Recitations, lectures, oral and written reports. Prerequisites: Literature 55 and 56.

58. Word Study.—(Second Half-Year.)

Tu., Th., 7:45. (Two term hours.)

After a few introductory lectures on language, the work centers in the study of words—their origin, development, significance, and habits. Students who have had but little Latin and Greek will find this course very helpful. Text-book: Greenough and Kittredge's *Words and Their Ways*.

59. Shakespeare.—(First Half-Year.)

Mo., We., Fr., 8:40. (Three term hours.)

A close study of the language and the structure of the following plays: *King Lear*, *Othello*, *Macbeth* (or *Hamlet*), *Henry the Fourth, Part I*. Also a more rapid reading of the rest of the more important plays.

61. English Literature of the Nineteenth Century.—(First Half-Year.)

Tu., Th., 9:50. (Two term hours.)

Studies in Wordsworth, Coleridge, Scott, Byron, Shelley, Keats, Lamb, De Quincey, Macaulay. Recitations, lectures, oral and written reports.

62. Continuation of Course 61.—(Second Half-Year.)

Tu., Th., 9:50. (Two term hours.)

Studies in Tennyson, the Brownings, Carlyle, Ruskin, Arnold, Landor, Clough, Rossetti, Morris, Swinburne. Recitations, lectures, oral and written reports.

63. The English Bible as Literature.—(First Half-Year.)

Mo., We., Fr., 7:45. (Three term hours.)

To the student of literature the Bible has a two-fold interest, entirely apart from its religious value: (1) It is itself noble literature; (2) It has influenced the literature of the English-speaking world more profoundly than has any other book. The object of this course is to help the student to see the beauty and the power of the Bible as literature—its narrative, its oratory, its exposition, its poetry and song. Recitations, lectures, oral and written reports.

64. American Poetry.—(Second Half-Year.)

Mo., We., Fr., 7:45. (Three term hours.)

A rapid survey of the poetry of the Colonial and Revolutionary Periods; then a study of the best work of Bryant, Poe, Emerson, Whittier, Longfellow, Lowell, Holmes, Whitman and Lanier. Recitations, lectures, written reports. Text-book: Page's *The Chief American Poets*.

PUBLIC SPEAKING

MISS McEBRIGHT.

Major in Public Speaking and English Literature: The minimum is ten term hours of Public Speaking and fourteen term hours of English Literature.

71. Elementary Course.—(First Half-Year.)

Mo., We., Fr., 8:40. (Three term hours.) Breath Control. Tone Placing, Tone Building, Enunciation, Emphasis, Inflection, Phrasing, Analysis, Gesture, Vocal and Physical Expression, Recitation, Declamation.

72. (Second Half-Year.)

Mo., We., Fr., 8:40. (Three term hours.) Declamation, Oration, Development of Imagination and Sympathetic Insight into Literature.

73. **Advanced Course.—(First Half-Year.)**

Tu., Th., 8:40. (Two term hours.) Original Oration and Debate.

74. **(Second Half-Year.)**

Tu., Th., 8:40. (Two term hours.) Extempore Address. Literary, Dramatic and Artistic Interpretation. Character Study. Browning's Poems, Shakespeare's Plays.

A two years' course is offered in the department of Public Speaking. Progressive educators realize that the Spoken Word is an essential part of education. It is a recognized psychological fact that no one *knows* that which he is unable to present clearly to the consciousness of another. A blurred, indistinct utterance is a poor introduction into the business, social and educational world, while a cultivated, distinct utterance wins respect and attention. The men and women, who can speak well have an advantage over those who cannot, even though the latter may possess superior ability in other lines. Educated men and women especially should be able to speak in a clear and forceful manner, free from mannerisms and localisms. Instruction will be furnished those students who enter the Oratorical and Prize Speaking contests.

GERMAN LANGUAGE AND LITERATURE.

PROFESSOR KOLBE.

PROFESSOR BULGER.

ASSISTANT, MR. VITTEL.

The object of this department is to enable the student to acquire rapidly a practical knowledge of German. Special attention is given to pronunciation and the training of the ear for the sounds of the German language. The German language is used in the class room as the medium of teaching. This method consistently pursued during a four years' course, not only guarantees to the faithful student an accurate and comprehensive knowledge, furnishing the key to the vast field of German literature, but it recognizes also the practical claims of the German language in a country where millions of German-speaking people live, where business relations and demands, in their various forms, call for an actual and practical use of this language, and where, therefore, this language, above all, should become, as far as possible, a living language in the mouth of the student. In thus combining theory with practical work it is thought that the greatest good will come to the student in the pursuit of the German language through the means indicated.

The following course is suggested as the proper order in which a major in German should be taken by those who enter unprepared in this language. For those who have studied modern languages in secondary schools, a personal conference with the instructor will be found necessary in planning major work.

Any student who so desires may take a major in modern languages by combining German and French so as to take at least 24 term hours after the completion of the required Freshman work. Care should, of course, be taken to plan for all required minor studies as early as possible in the course.

REQUIREMENTS FOR GERMAN MAJOR.

A minimum of 24 term hours *above* the Freshman year constitutes a major. The following courses are required for a major and must be included: 105, 106, 111, 112 and at least two semesters' work to be selected from the following courses: 107, 108, 115, 116, 123.

ORDER OF COURSES.

STUDENTS BEGINNING GERMAN IN COLLEGE should take the introductory courses in the following order:

Freshman Year.

Courses 101 and 102.

Sophomore Year.

Courses 103 and 104.

Courses 105 and 106.

(Students whose work in the first year has been graded below G are advised to defer Courses 105 and 106 until the third year.)

The advanced courses may be selected as follows:

Course 104 admits to 105 and 107.

Course 106 admits to 107 and 109.

Course 108 (or 116 or 124) admits to 109 and 111.

Course 110 admits to 111.

STUDENTS PRESENTING GERMAN FROM SECONDARY SCHOOLS are admitted as follows:

Those presenting one year are advised to enter 101.

Those presenting two or three years are admitted on probation to 103 or 105.

Those presenting four years are admitted on probation to 105, 107 or 109.

COURSES OF STUDY.

INTRODUCTORY COURSES

(given every year).

101. (First Half-Year.)

Mo., Tu., We., Th., 9:50. (Four term hours.)

Beginners' Course.

Vos' Essentials of German; written grammar exercises from English into German. Stories and poems. Simple conversation.

102. (Second Half-Year.)

Mo., Tu., We., Th., 9:50. (Four term hours.)

Beginners' Course.

Review of grammar; rapid oral translation of English sentences into German; Storm's Immensee, Hillern's Hoehere als die Kirche or Gerstaecker's Garmelshausen.

103. (a) (First Half-Year.)

Mo., We., Fr., 7:45. (Three term hours.)

This course is intended for those who have completed courses 101 and 102, or their equivalent. Students with one year of secondary school German will be admitted *on probation*. The time will be divided between prose composition and reading of easier prose or poetical works.

104. (a) (Second Half-Year.)

Mo., We., Fr., 7:45. (Three term hours.)

Course 104 carries out in the second semester the work of course 103. An easier classic, such as Wilhelm Tell, may be attempted.

103. (b) (First Half-Year.)

Mo., We., Fr., 10:45. (Three term hours.) A parallel course to 103 a, with equivalent work.

104. (b) (Second Half-Year.)

Mo., We., Fr., 10:45. (Three term hours.) A parallel course to 104 a, with equivalent work.

105. (First Half-Year.)

Tu., Th., 10:45. (Two term hours.)

The work of this course is intended primarily for those who have completed courses 101 and 102 (with a grade no lower than C), or two years of secondary school German. The work will consist of lectures, dictated in German, on the history of German literature (extending in course 106 to the year 1300), and of a review of Joynes-Meissner's Grammar.

106. (Second Half-Year.)

Tu., Th., 10:45. (Two term hours.)

The nature of this course is the same as that of course 105. For the grammar review of course 105 a study of German life and customs will be substituted.

ADVANCED COURSES

For 1912-1913.

FIRST HALF-YEAR.

107. Mo., Wed., Fri., at 8:40.

Prerequisite: Course 104 or four years of secondary school German.

Goethe's Youth.

A study of Goethe's works and life prior to his residence at Weimar.

109. Tu. and Th., at 7:45.

Prerequisite: Course 106 or 108, or four years of secondary school German.

Modern German Literature.

This course is intended to develop an ability to read modern German easily and rapidly, and to converse.

111. Tu. and Th., at 8:40.

Prerequisite: Course 108 or 110.

History of German Literature.

Interpretation of early texts from translations with particular view to their literary value. A study of the great literary movements of the middle ages. Texts: Kluge, Vogt und Koch.

113. Fri., at 9:50.

For advanced students only. Personal application must be made to the instructor.

German Teachers' Course.

Theories and methods of teaching German. Criticisms of various grammars and texts. Elements of Phonetics.

SECOND HALF-YEAR.

108. Mo., Wed., Fr., at 8:40.

Prerequisite: As for course 107.

Goethe in Weimar.

A study of Goethe's life and works while in Weimar.

110. Tu. and Th., at 7:45.

Prerequisite: As for course 109.

Modern German Literature.

A continuation of course 109.

112. Tu. and Th., at 8:40.

Prerequisite: Course 111.

History of German Literature.

A continuation of the work of course 111.

114. Fri. at 9:50.

For advanced students only. Personal application must be made to instructor.

German Teachers' Course.

A continuation of the work of course 113.

For 1913-1914.

FIRST HALF-YEAR.

115. Mo., We., Fri., at 8:40.

Prerequisite: Course 104 or four years of secondary school German.

Schiller.

A study of his life and works. The work of the first half-year will be devoted to the earlier dramas and lyrics.

117. Tu. and Th., at 7:45.

Prerequisite: Course 108 or 116 or 123.

Goethe's Faust.

119. Tu. and Th., at 8:40.

Prerequisite: Course 104 or four years of secondary school German.

History of Germany.

Especial attention will be given to the influence of history on literature.

121. Fri., at 9:50.

For advanced students only. Personal application must be made to instructor.

German Seminar.

An introduction to the history of the German language.

SECOND HALF-YEAR.

116. Mo., We., Fri., at 8:40.

Prerequisite: As for course 115.

Schiller.

A continuation of the work of course 115. The half-year will be devoted to a study of Schiller's later work.

118. Tu. and Th., at 7:45.

Prerequisite: As for course 117.

Modern Drama.

Rapid reading and discussion of selected works of Hauptmann, Sudermann and others.

120. Tu. and Th., at 8:40.

Prerequisite: As for course 119.

Advanced theme writing and conversation.

122. Fri., at 9:50.

Prerequisite: Course 121.

German Seminar.

Continuation of course 121.

For 1914-1915.

FIRST HALF-YEAR.

123. Mo., We., Fr., at 8:40.

Prerequisite: Course 104 or four years of secondary school German.

Lessing.

A study of his life and a limited number of selected dramas.

109. Tu. and Th., at 7:45.

As described for 1912-1913.

111. Tu. and Th., at 8:40.

As described for 1912-1913.

125. Fri. at 9:50.

For advanced students only. Personal application must be made to instructor.

German Seminar.

Goethe and Schiller. A study of their lives with special attention to their influence upon one another.

SECOND HALF-YEAR.

124. Mo., We., Fr., at 8:40.

Prerequisite: As for course 123.

Post Classical Writers.

The work of the half-year will be devoted to the successors of the classical period with reading and translation from their works.

110. Tu. and Th., at 7:45.

As described for 1912-1913.

112. Tu. and Th., at 8:40.

As described for 1912-1913.

126. Fri. at 9:50.

Prerequisite: Course 125. A continuation of course 125.

ROMANCE LANGUAGES.

PROFESSOR PLAISANCE.

FRENCH.

151a. (First Half-Year.)

Mo., Tu., We., Th., 7:45. Fraser and Squair's French Grammar. Reader, Lazare's Les Plus Jolies Contes de Fees.

152a. (Second Half-Year.)

Mo., Tu., We., Th., 7:45. Fraser and Squair's Grammar continued. Labiche and Martin's Voyage de M. Perrichon. Dictation and conversation.

151b. (First Half-Year.)

Mo., Tu., We., Th., 9:50. Fraser and Squair's Grammar. Reader, French Fairy Tales.

152b. (Second Half-Year.)

Mo., Tu., We., Th., 9:50. Fraser and Squair's Grammar. Reader, Voyage de M. Perrichon. Dictation and conversation.

153. (First Half-Year.)

Mo., We., Fr., 10:45. Fraser and Squair's Grammar, Part II. Le Bourgeois Gentilhomme.

154. (Second Half-Year.)

Mo., We., Fri., 10:45. Francois's Introductory French Prose. Moliere's Precieuses Ridicules, L'Avare,

155. (First Half-Year.)

Tu., Th., 10:45. Study of the Short Story in French Literature. Daudet, Bazin, Francois Coppee, Theophile Gauthier de Maupassant. Not given 1912-1913.

156. (Second Half-Year.)

Tu., Th., 10:45. Course 155 continued. Not given 1912-1913.

157. (First Half-Year.)
 Tu., Th., 10:45. Modern Prose and plays. Conversation.
158. (Second Half-Year.)
 Tu., Th., 10:45. Course 157 continued.
159. (First Half-Year.)
 Tu., Th., 8:40. Study of the Classic Period. Plays selected from the following: Corneille's *Le Cid*, Cinna, Polyeucte, Racine's *Phedre*, *Andromaque*, *Esther*.
 Not given 1912-1913.
160. (Second Half-Year.)
 Tu., Th., 8:40. Course 159 continued. Not given 1912-1913.
161. (First Half-Year.)
 Tu., Th., 8:40. The novels of Victor Hugo. Readings, reports and discussions.
162. (Second Half-Year.)
 Tu., Th., 8:40. Course 161 continued.

SPANISH.

171. (First Half-Year.)
 Mo., We., Fr., 8:40.
 Beginners' Course. Hill's and Ford's Spanish Grammar. Hill's *Tales* for beginners. Grammar, pronunciation and sight reading.
172. (Second Half-Year.)
 Mo., We., Fr., 8:40.
 Course 171 continued with additional reading.

MENTAL AND MORAL PHILOSOPHY.

PRESIDENT CHURCH.

PROFESSOR OLIN, INSTRUCTOR.

Major: Philosophy may be combined for two majors, "Philosophy and Economics," and "Philosophy and History," twelve term hours required in each subject.

201. Psychology.—(First Half-Year.)
 Mo., We., Fr., 7:45. (Three term hours.) Text-book: James' Psychology.

Psychology is an elective for one year in either a major or a minor group. A text-book affords the basis of study, and is supplemented by oral instruction which follows the lines of modern investigation. From time to time such topics as Habit, Memory, Imagination, Illusion, Hallucination, and Alternating Personality are assigned, and the student is referred to authorities in the library and expected to write papers which are read and discussed in the class, the purpose being to familiarize the student with the library method of study and investigation, and to stimulate him to think for himself. Original problems in observation are worked out by the students, reports discussed in class and note-books kept.

202. Psychology.—(Second Half-Year.)

Mo., We., Fr., 7:45. (Three term hours.) Continuation of Course 201.

203. Ethics.—(First Half-Year.)

Mo., We., Fr., 10:45. (Three term hours.) Text-book: Mackenzie.

Moral Philosophy is an elective for two half-years. The subject embraces theoretical and practical ethics and is studied with reference to the origin and development of ethical ideas as viewed in the light of modern philosophy. Text-books are used as guides, but the aim is to encourage individual research and original thought; to that end, topics are assigned at intervals during the course, and students are referred to a library of wide and well chosen reference books. Papers are written and discussed on the doctrine and influence of such men as Socrates, Plato, Kant, Berkeley, and others, and on the systems of thought advanced by the Stoics, Epicureans, Cynics, and Ascetics. The theoretical bearing of the contemporaneous problems of Education, Charities, Penology, Temperance, and Sociology is introduced and the fullest discussion invited.

204. Ethics.—(Second Half-Year.)

Mo., We., Fr., 10:45. (Three term hours.) Continuation of Course 203 with Natural Theology. Text-books: Mackenzie and Valentine.

During the last thirteen weeks of the second half-year, the course in Ethics is supplemented by a course in Natural Theology. The object of this course is to lead the student carefully to observe the phenomena of Nature, to trace their causes to their creative source, and to read from them the power, wisdom and beneficence of God. A text-book is used as an outline, while the student is given problems for original investigation and application, and topics for library research.

LOGIC.

PROFESSOR OLIN.

206. Logic—(Second Half-Year.)

Tu., Th., Sat., 9:50. (Three term hours.) The textbook, Jevon's Advanced Logic. Any other logic is good for reference, especially Mill and Bain.

Logic is the study, on the thought side, of concepts, judgments, inferences; on the language side of terms, propositions, arguments; in other words, the study of correct processes of thought. It analyzes induction, traces its steps from observation, comparison, inference, proof, to the generalization of truths; it is the scientific method.

It passes not only from the particular to the general, but from the general to the particular, and points out in each case both the right way and the wrong.

It would be well for students to elect logic early, because inductive and deductive reasoning are fundamental to all other studies.

ECONOMICS AND POLITICAL SCIENCE.

PROFESSOR OLIN.

Major: Economics can be combined with Philosophy for a major, "Philosophy and Economics," twelve hours of each. Also with History for a major, "History and Economics," twelve hours of each.

Such students as desire to take all the work in this department are advised to take Courses 251 and 252 in the Sophomore year.

The courses are so arranged that the first three or the first four may be taken in consecutive terms and should be taken in the order given. Course 251 should precede any other; 252 should precede 253; while 254 and 255 may be taken in association or succession, and may follow 251.

The object of the work is to give the student a comprehensive grasp of the leading economic and political theories and their application to present-day problems. Emphasis is placed upon theoretical and historical development as alone affording a sure basis for the more practical part of the work.

251. Political Economy.—(First Half-Year.)

Mo., We., Fr., 8:40. (Three term hours.) Textbook: Ely's Outlines, revised edition, supplemented by essays, collateral readings and observations. References to Seligman, Fetter, Seager, Laughlin, Blackmar, Bullock, Fairchild, and others.

This is an introductory course, designed for the study of the leading principles of the science and aiming to acquaint the student with the data of economic inquiry and the nature of economic laws.

252. Political Science.—(Second Half-Year.)

Tu., Th., 8:40. (Two term hours.) Text-book: Leacock's Elements of Political Science.

A study of the nature of the state, the organization of government of every kind, and the province of government. The course is designed to open the field of Political Science and lay a foundation for later College or University work.

253. Political Science.—Federal Government. (First Half-Year.)

Tu., Th., 8:40. (Two term hours.)

This course designs a study of Federal Government, by a comparative study of the organization of the Federal Governments of the world. Lecture, library and research work.

254. Sociology.—(Second Half-Year.)

Mo., We., Fr., 8:40. (Three term hours.) Text-book: Fairbank's Introduction to Sociology is read, essays, and library work.

An elementary course designed to introduce the student to the principles of human association and to develop the power of observing and analyzing social facts. References: Ely, Vincent and Small, Ross, Blackmar and others.

256. Economics.—Economic Problems.—(Second Half-Year.)

Tu., Th., 10:45. (Two term hours.)

A detailed study of the problems and theories involved in some of the great economic questions now before the American people, such as railroad transportation, taxation, corporations, money, and banking. The work is based upon some authoritative text, and includes library work and the drafting of bills and debating them in class. References: All late Economic books, journals, and periodicals.

THE AKRON SETTLEMENT HOUSE.

Arrangements have been made whereby students, either men or women, who wish to specialize in Settlement Work while carrying on their college course, may have rooms in the Akron Settlement House as resident helpers and be under the direct training of the Head Worker.

HISTORY.

PROFESSOR OLIN.

Major: History may be combined for two majors. One, "History and Economics," 12 term hours each; the other, "Philosophy and History," 12 term hours each.

271. American History.—(First Half-Year.)

Tu., Th., Sat., 7:45. (Three term hours.)

A critical study of the political, social, and industrial aspects of the great Periods, Problems, and Events of United States History, together with an outline history of Mexico, Canada, Central America, South America, and the West Indies. Good course in U. S. History a prerequisite.

272. History of Western Europe.—(Second Half-Year.)

Tu., Th., Sat., 7:45. (Three term hours.) Text-book:

James Harvey Robinson's History of Western Europe.

The story of Western civilization from the time of the Romans. The rise of the states of modern Europe. The development of the political, religious, social and industrial systems of the Middle Ages, and their outgrowths of today. The great movements that were common to the nations, with the special history of each state.

273. History of England to the Seventeenth Century.—(First Half-Year.)

Mo., We., Fr., 9:50. (Three term hours.) Text-book:

Terry. Green, Gardiner, Montgomery, Andrews, Cheyney, Macaulay, and others in the College library are used for reference.

As the history of England involves the interest of other countries, there must be additional subjects of study; any general history of England is helpful.

Lack of elementary English history and of historical reading is a serious want to the student. Such books as the following are recommended: Bulwer-Lytton's Harold, Kingsley's Hereward and Westward Ho; Shakespeare's English historical plays,—a part of the required work—Tennyson's Harold, Becket and Queen Mary; Scott's historical novels, Macaulay's and Thackeray's historical essays.

274. History of England to the Twentieth Century.—(Second Half-Year.)

Mo., We., Fr., 9:50. (Three term hours.) A continuation of Course 273. Text-books and references as above.

MATHEMATICS—PURE AND APPLIED.

PROFESSOR HOLDER.

ASSISTANT PROFESSOR C. R. OLIN.

Major in Mathematics and Physics.

Surveying, two term hours.

Analytical Geometry, four term hours.

Calculus, six term hours.

Scientific Physics, twelve term hours.

Total, twenty-four term hours.

The courses in this department have been planned to serve two purposes: First, to offer the study as a part of a liberal education, as a mental discipline to train the student in logical thinking and in the use of exact language; second, as a tool to be used in further college work, in the pursuit of the sciences at this or higher institutions offering graduate work, and to prepare for higher education along engineering lines.

To meet this last condition, the work has been arranged preparatory to the course in Junior and Senior years of the best technical schools of the country. The successful engineer of today needs, besides his professional training, the culture of a general college course. He must be able to handle men and business as well as design and handle machines.

The following courses are given each year:

First Year.

301. College Algebra.—(First Half-Year.)

In two sections at 8:40. (Four term hours.) Tu., We., Th., Fr. Required of all students. Text: Rietz and Crathorne.

Theory of Quadratics with graphical representations, Binomial Theorem, Progressions, Complex Numbers, Determinants, Partial Fractions, Logarithms, Theory of Equations.

302. Plane and Spherical Trigonometry.—(Second Half-Year.)

In two sections at 8:40. Fourteen weeks, four times a week. Tu., We., Th., Fr. (Three term hours.) Required of Science students; elective for all others. Text: Rothrock.

Goniometry, Trigonometric Equations, Solution of Plane and Spherical Triangles.

304. Elementary Surveying.—(Second Half-Year.)

Last four weeks, four times a week. Tu., We., Th., Fr., at 8:40, followed by forty hours of field work to be put in, if necessary, after close of term. (Two term hours.)

Text: Wentworth's Plane Surveying.

Theory of Instruments. Measurements with Chain and Compass, Tape and Transit. Leveling. Stadia Measurements. Making plots and maps with blueprints from field notes.

Second Year.

305. Plane and Solid Analytic Geometry.—(First Half-Year.)

At 7:45. (Four term hours.) First fourteen weeks, five times a week. Mo., Tu., We., Th., Fr. Text: Ashton.

Straight line and the general equation of the First Degree. Polar Co-ordinates. Transformation of Co-ordinates. Conic Sections and Equations of the Second Degree. Tangents and Normals, Loci, Parametric Equations. The General Equation of the Second Degree, Euclidean Transformations, Inversions. Poles and Polars.

307. Calculus.—(First Half-Year.)

At 7:45. (One term hour.) Last four weeks, five times a week. Mo., Tu., We., Th., Fr. Text: Granville. (No credit given unless continued through Second Half-Year.)

308. Calculus Continued.—(Second Half-Year.)

At 7:45. (Five term hours.) Five times a week. Mo., Tu., We., Th., Fr. Text: Granville.

Functions, Theory of Limits, Differentiations, Series, Expansion of Functions, Indeterminate forms, Maxima and Minima of Functions of one or more Variables, Partial Derivatives, Direction of Curves, Curvatures, Tangents and Normals, Evolutes, Involute, Order of Contact, Envelopes.

Integration of Standard Forms, Constant of Integration, Integration of Rational Fractions, Integration of Irrational Fractions, Trigonometric Forms, Integration by Parts, Integration by Substitution, Summation and the Definite Integral. Application to Curves and Simple Volumes of Revolution, Moments of Inertia, Center of Gravity of any Solid, Application to Pressure of Fluids, Force of Attraction, etc.

Advanced Courses in Differential Equations and Analytic Mechanics, running each as a three hour study through the year, will be offered if there should be demand for them.

ASTRONOMY.

PROFESSOR HOLDER.

These courses will be offered in 1912-1913 and alternate years.

321. Descriptive Astronomy.—(First Half-Year.)

Three times a week: Mo., We., Fr., at 10:45. (Three term hours.) Elective for those who have completed Mathematics 302. Text: Young's Manual of Astronomy.

Celestial Sphere, Astronomical Instruments, Elementary Celestial Mechanics, Solar System, Fixed Stars, Double Stars, Nebulae, Constellation. Study one evening a week, Demonstration at Equatorial, Meridian Circle and other Instruments of the Observatory.

322. Practical Astronomy.—(Second Half-Year.)

Three times a week: Mo., We., Fr., at 10:45, or six hours' practical work in Observatory. (Three term hours.) Elective for those who have completed Mathematics 301, 302 and 305., Astronomy 321, and Physics 341. Text: Campbell's Practical Astronomy.

Preliminary work with accessory instruments, such as: Micrometer, Level, Reading Microscope, etc. Theory of Astronomical Instruments, observations with Engineers' Transit, Sextant, and Meridian Circle. Determination of Time, Latitude, Longitude, Right Ascension and Declination of Stars by Differential Method.

MECHANICAL DRAWING AND DESCRIPTIVE GEOMETRY.

PROFESSOR HOLDER.

ASSISTANT PROFESSOR C. R. OLIN.

Each year the demand has been stronger that it be made possible for a student to obtain such work in his Literary Course, as to shorten his course in a Technical School by two years. Buchtel College intends to continue distinctly as a College of Liberal Arts and Letters, but it has seemed wise to

yield to the demand to a certain extent. One year's work in Mechanical Drawing and Descriptive Geometry has been added. This work will be such as will be accepted at full value by any Technical School.

A student looking forward to a Technical course after finishing the Literary course should make it known to the Classification Committee and the professors in charge, that a proper selection and election of work to this end may be made.

331. Elementary Mechanical Drawing.—(First Half-Year.)

(a) Tu., We., Th., 1-3:30; (b) Mo., We., Th., 1-3:30. (Four term hours.) Two and one-half hours' drafting or recitation each day. Text: French's Engineering Drawing.

Drawing Outfit includes Set of Drafting Instruments, drawing board, T-square, triangles, curve ruler, triangular scale, etc., and costs about \$10 for a satisfactory outfit. Good work cannot be expected with an inferior set of tools.

The work includes—use of drawing instruments, elementary geometrical drawing, lettering, orthographic projections, tracing, blue-printing, etc.

Courses 331 and 332 are elective in place of French for Scientific Freshmen.

332. Descriptive Geometry.—(Second Half-Year.)

(a) Tu., We., Th., 1-3:30; (b) Mo., We., Th., 1-3:30. (Four term hours.) Two and one-half hours' drafting or recitation each day. Text: Church, Descriptive Geometry; Bartlett's Problems in Descriptive Geometry. Prerequisites: Solid Geometry and Drawing Course 331.

The work includes—representation of points, lines, planes, and intersections in orthographic projection; curved lines, tangents, development and intersection of surfaces, and simple pattern making.

334. Mechanical Drawing. Same as Course 331.—(Second Half-Year.)

For students entering College the Second Half-Year. Same days as Course 332. (Four term hours.)

335. Descriptive Geometry. Same as Course 332.—(First Half-Year.)

For students entering Freshman with Mechanical Drawing taken in High School. Same days as Course 331. (Four term hours.)

336. (Second Half-Year.)

For students completing Course 335 a course in Machine Design, Architectural Drawing and Design, or other similar work will be offered. Same days as Course 332. (Four term hours.)

PHYSICS.

PROFESSOR HOLDER.

Major in Physics and Mathematics.

Scientific Physics, twelve term hours.

Surveying, two term hours.

Analytical Geometry, four term hours.

Calculus, six term hours.

Total, twenty-four term hours.

The following courses are offered: 341 and 342 Physics for Scientific students.

Prerequisites for the courses are: A year of elementary Physics, a year of Chemistry, and the Algebra and Trigonometry of the Freshman Mathematics.

341. **Mechanics, Heat, Wave Motion, Sound.—(First Half-Year.)**

Four recitations a week: Tu., We., Th., Fr., at 9:50.

Two 3 hour laboratory periods on two afternoons. (Six term hours.)

342. **Electricity and Magnetism, Light and Photography.—(Second Half-Year.)**

Four recitations a week: Tu., We., Th., Fr., at 9:50.

Two 3 hour laboratory periods on two afternoons. (Six term hours.)

343 and 344. **Physics for Classical and Philosophical students: Historical and Descriptive.**

These courses will be offered in 1913-1914 and alternate years.

Prerequisites for the courses are: A year of elementary Physics, a year of Chemistry, and the Algebra of the Freshman Mathematics.

343. **Mechanics, Heat, Wave Motion, Sound.**—(First Half-Year.)
Three recitations a week: Mo., We., Fr., at 10:45.
(Three term hours.)
344. **Electricity and Magnetism, Light and Photography.**—(Second Half-Year.)
Three recitations a week: Mo., We., Fr., at 10:45.
(Three term hours.)

CHEMISTRY.

PROFESSOR KNIGHT.

HEZZELTON E. SIMMONS, B. S., ASSISTANT PROFESSOR.

E. H. GRAFTON, B. S., LABORATORY ASSISTANT.

Major: Eighteen term hours in Chemistry above the Freshman year and the second semester in Scientific Physics are the minimum requirements for a major in Chemistry and Physics.

351. **General Chemistry.**—(First Half-Year.)

A study of the newer theories of Chemistry; Inorganic Preparations. Six hours per week. Tu. and We., 10:45; Mo. and Fr., 1:00 to 2:45. (Four term hours.) Required of Freshmen who have taken a year of Chemistry in preparatory school.

353. **General Chemistry.**—(First Half-Year.)

Six hours per week. Th. and Fr., 10:45; Tu. and We., 1:00 to 2:45. (Four term hours.) Required of Freshmen beginning Chemistry.

352. **General Chemistry.**—(Second Half-Year.)

Six hours per week. Tu. and We., 10:45; Mo. and Fr., 1:00 to 2:45. (Four term hours.) Inorganic Preparations; Blow-pipe Analysis. This course is for Freshmen who have taken Course 351.

354. **General Chemistry.**—(Second Half-Year.)

Six hours per week. Th. and Fr., 10:45; Tu. and We., 1:00 to 2:45. (Four term hours.) Inorganic Preparations. This course is given for Freshmen who have taken Course 353.

The elements of inorganic chemistry are taught by recitations, lectures and practical work in the laboratory. Each student is assigned a desk in the laboratory, furnished with apparatus and chemicals, and it is required that most statements shall be confirmed by experiment and illustrated before the class; each student is further required to manufacture one or more salts under each basic element, and to explain fully the process and principles involved and exhibit to the class the results of the work.

An elementary course of blow-pipe analysis is given in connection with the study of the metallic elements and their occurrence in ores and minerals.

355. Qualitative Analysis.—(First Half-Year.)

Six hours per week. Mo., We., Fr., 2:45 to 4:30.
(Three term hours.)

356. Quantitative Analysis; gravimetric and volumetric.—(Second Half-Year.)

Six hours per week, Mo., We., Fr., 2:45 to 4:30.
(Three term hours.) Open to students who have taken qualitative analysis. The work will be upon simple salts and minerals.

357. Organic Chemistry.—Recitations and Laboratory practice.—(First Half-Year.)

Four hours per week. Tu., 10:45; Th., 1:00 to 4:30.
(Three term hours.) Students make and test the great classes of general organic compounds. Required of all students who select Chemistry as their major subject.

358. Organic Chemistry.—(Second Half-Year.)

Advanced Course. A continuation of Course 357. Topic work along the line of recent discoveries. Attention will be given to industrial applications. Four hours per week. Tu., 10:45; Th., 1:00 to 4:30. (Three term hours.) Required of all students who select Chemistry as their major subject.

359. Quantitative Analysis.—(First Half-Year.)

Six hours per week. Mo., We., Fr., 2:45 to 4:30.
(Three term hours.) There will be technical analyses, such as the examination of coal; limestone; water; milk and foods, for adulterations. Course 356 is required before this course can be selected.

360. Quantitative Analysis.—(Second Half-Year.)

Six hours per week. (Three term hours.) Time of work arranged after class is organized. Work will be along technical lines. Chemistry of clays and glazes,—Chemistry of India rubber, Chemistry of cements, and Agricultural Chemistry may be selected.

361. Quantitative Analysis.—(First Half-Year.)

Six hours per week. Mo., We., Fr., 2:45 to 4:30. (Three term hours.) Household Chemistry. This course is planned for women and includes the chemistry of foods and testing for adulterations; also, the chemistry of cooking and cleaning. Course 356 is required before this can be selected.

[Note: A second Half-Year will be given to this subject, if students desire.]

363. Chemistry of India Rubber.—(First Half-Year.)

Eight hours per week. Time of work arranged after class is organized. The study will cover the various crude gums, solvents and methods of analysis of soft-cured rubbers.

364. Chemistry of India Rubber.—(Second Half-Year.)

Eight hours per week. This course continues the study of analysis. Theories of vulcanization. Compounding and curing of samples. Theories of reclaiming and their practical application.

A second year is planned for students who desire to take up research work in rubber chemistry.

The first year course supposes a previous course of a year of organic chemistry and a half-year of quantitative analysis.

Various reference books are used. Recitations are required, lectures given and reviews of articles in periodicals assigned. Ability to read German and French is helpful.

Students themselves do all the work of manipulating the rubber. Mixing rolls, Calender rolls and vulcanizers are provided.

While the full course occupies two college years, students can select any part for which they are qualified or omit any part.

Certificates of work accomplished will be given students whenever they leave.

Industrial Chemistry is taught by lectures and laboratory practice. Whenever possible, actual products are exhibited to the students and the manufacturing processes reproduced in miniature. The great losses by imperfect methods of manufacture and by waste products are pointed out and the student is taught to see the true economy of production. Illustrative of the topics studied, visits are made to various manufacturing establishments and an opportunity is given to see manufacturing operations in actual working. Akron and the neighboring city of Barberton afford a varied field for the study of chemistry applied in the industries, as shown in a partial list of prominent manufactories:

The making of pottery and various clay products.

The manufacture of India rubber products, both hard and soft.

The manufacture of paper and straw-board.

The manufacture of artificial ice.

The making of soda ash.

The manufacture of paints and varnishes.

BIOLOGY AND GEOLOGY.

PROFESSOR BROOKOVER.

HAROLD A. HAINES, ASSISTANT.

A major in Biology and Geology shall consist of twenty-four term hours. Students who take a major in Biology and Geology should take Zoology or Botany in their Sophomore year. Those who expect to teach science or are taking biological subjects as a part of their general culture should elect Physiology and Geology in the Junior year in addition to the other subjects suggested for the Sophomore year. Prospective medical students should take Zoology in the Sophomore year and follow it with Physiology, Embryology and Histology.

A major in Biological subjects and Chemistry shall consist of twelve term hours in each of the two departments.

401. Invertebrate Zoology.—(First Half-Year.)

Mo., We., Fr., 7:45. Laboratory, Tu., Th., 1:00 to 2:45. (Four term hours.)

This is a course in Systematic Zoology. A large number of types are examined, dissected, and drawn. Their relationship is brought out by lectures and a suitable text. The lectures are illustrated by charts and lantern-slides. The laboratory work is supplemented by a study of the College's collection of microscopic slides. Students are encouraged to make slides for themselves. The College furnishes the necessary reagents and a Minot Automatic Rotary Microtome.

402. Vertebrate Zoology.—(Second Half-Year.)

Mo., We., Fr., 7:45. Laboratory, Tu., Th., 1:00 to 2:45. (Four term hours.)

This continues the work of Course 401, by dealing with the Chordates. As in the preceding course, one-half of the time is devoted to the examination of slides, to dissections, and to drawings.

403. History of Zoology.—(First Half-Year.)

Tu., Th., 7:45. (Two term hours.)

This course can be taken only by those who have had Courses 401 and 402, or by those who are taking Zoology. It is a course dealing with the evolution of the Evolutionary idea and ending with present day Zoological problems. Given for not fewer than three students.

404. Embryology.—(Second Half-Year.)

(Two or three term hours, according to the amount of laboratory work.) One recitation at 7:45 on Tu. or Th. Only for students who have had Zoology or are taking it at the time.

A study of maturation, fertilization and development,—mainly the development of Vertebrates. Two or four hours of laboratory work in microscopical preparation and drawing.

405. Botany—Systematic Botany.—(First Half-Year.)

Recitations, Tu., Th., 8:40. Laboratory, 1:00 to 2:45, Mo., We. (Four term hours.)

The laboratory work includes as many types of Thallophytes, Bryophytes and Pteridophytes as the time will permit. Their relationships are brought out by recitations and lectures. This course should precede Course 410.

406. Botany—Systematic and Physiological Botany.—(Second Half-Year.)

Recitations, Tu., Th., 8:40. Laboratory, 1:00 to 2:45, Mo., We. (Four term hours.)

The work of the previous half-year is continued to include the Sperma-phytes. Cell and tissue structures are studied, and experiments in plant physiology are conducted. The student is encouraged to prepare and stain permanent microscopical preparations for his own collection.

407. Physiology.—(First Half-Year.)

Recitations, Tu., Th., 9:50. Laboratory, 1:00 to 4:00, Friday. (Four term hours.) Biology 401 and 402 are prerequisite, and one year of College Chemistry in addition to Elementary Physics. It is preferable to have had Courses 401 and 402. It is intended for Juniors and Seniors.

The course deals with the physiology of muscles, of respiration and circulation and digestion. Kymographs and other necessary apparatus for laboratory work are furnished.

408. Physiology.—(Second Half-Year.)

Recitations, Tu., Th., 9:50. Laboratory, Friday p. m., 1:00 to 4:00. (Four term hours.) Same prerequisites as for Course 407.

The course continues the work of the first half-year by an experimental and text-book course in the anatomy and physiology of the nervous system and sense organs.

409. Geology—Structural and Dynamical Geology and Mineralogy.—(First Half-Year.)

(Three, four or five term hours, according to whether laboratory work in blow-pipe analysis is taken.) Recitations, Mo., We., Fr., 8:40. Text-book: College Geology, Chamberlin and Salisbury.

Laboratory work to be arranged. Cannot be taken before the Junior year, and one year of College Chemistry and at least an elementary course in Physics are prerequisites. Field work to cover the important points of interest near Akron, is a part of the course.

410. Geology—Historical Geology.—(Second Half-Year.)

Recitations Mo., We., Fr., 8:40. (Three term hours.) Four term hours may be offered to those who take a major in Geology and Chemistry by doing laboratory work in Paleontology. Text-book: Chamberlin and Salisbury. Open only to those who have completed Geology 409 and have had a course in Systematic Zoology. It is much better to have had a course in Systematic Botany as well.

In this course the work of the preceding course is continued by a study of the development of the American continent, and of the life forms that dominated in the past. Reference to the U. S. Geological Survey reports and to many papers and monographs is encouraged.

411 and 412. Histology.

A course in the preparation and study of animal tissues and cell structure will be offered for those expecting to go forward to medical school. Two recitations each week for a year and four periods of laboratory work are arranged on consultation with the instructor.

DEPARTMENT OF PHYSICAL TRAINING.

MR. HAGGERTY.

The regular gymnasium drill for young men will begin about the middle of November and will close the last of March. This work is required of all first year students of the College and all Academy students except Seniors, and may be elected by others.

The drill consists of light calisthenics, dumb-bell sets and club-swinging by the entire class, and the work is directed to develop good form and to give complete control of the muscles of the body by light exercises. It aims to secure lightness, agility and grace rather than strength. Those students who are far enough advanced will be formed into special classes for work on the bars, fancy club-swinging and track-work.

The gymnasium has been equipped with a very heavy running mat and a vaulting block, so that sprinting, hurdling and vaulting can be practiced during the winter. Near the close of March, a Men's Gymnastic Exhibition will be held and many of the events will be preparatory for the Track Meet in the spring. The Exhibition counts as the examination in this course. Work on any of the other teams does not excuse attendance from the regular drill.

The gymnasium will be open for visitors only on Visiting Days and on other occasions only by special permission of the President or the Instructor in this department.

A limited number of resident students may be admitted to the drill by application to the Committee of the Faculty on Athletics and the payment of a fee of \$5.00 for the entire period of four months.

The Athletic Association is honored by the gift of the Medal presented by Mr. Frank Talbot Fisher, of New York, and also by his very generous donation of prizes for the Track Meet. They consist of two cups of the value of \$50 each and a Medal and are given under the following conditions:

The Individual Cup is to be awarded to the Athlete making the greatest number of points in the Track Meet, and must be won by him three years in succession in order to become his permanent property.

The Class Cup is the permanent property of the Athletic Association and is to be competed for by classes each year. An honorary position upon the cup is awarded the name of the class scoring the greatest number of points in each annual Track Meet.

The medal is to be given to the Athlete scoring the greatest number of points, and at once becomes his personal possession. One such Medal is to be offered for each annual Track Meet.

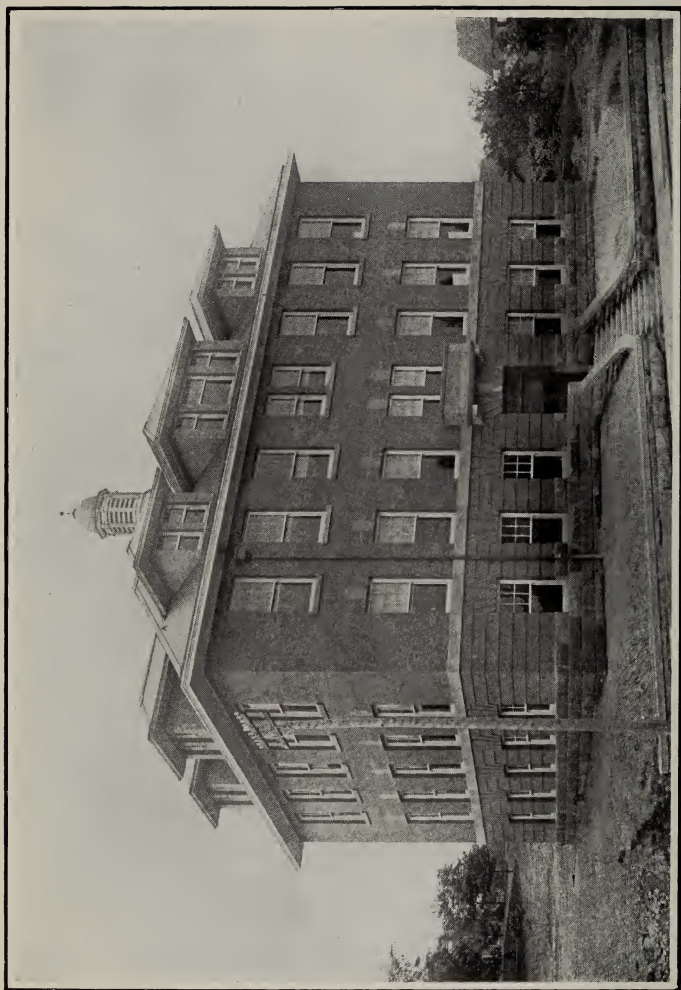
The Individual Cup and the Medal are open to all academic students of the College and Academy who are bona fide students (not counting courses in music and art). The Class Cup is open to the four College classes.

The annual Track Meet to compete for these prizes will be held early in June of each year.

PHYSICAL INSTRUCTION FOR YOUNG WOMEN.

DR. WEAVER.

Recognizing the need of some specific instruction to young women in addition to physical training and exercise, a course of lectures is given to all first-year young women, covering the field of hygiene, exercise, diatetics, and remedies of temporary relief. On certain afternoons of the week, the exclusive use of the gymnasium is reserved for young women. Athletic sports, in basket ball and lawn tennis, are encouraged.



BUCHTEL ACADEMY

BUCHTEL
ACADEMY

TEACHERS AND OFFICERS OF BUCHEL ACADEMY
FOR THE YEAR 1911-1912.

AUGUSTUS B. CHURCH, A. M., D. D., LL. D.,
PRESIDENT.

CHARLES O. RUNDELL, B. S.,
Principal and Teacher of German.

CHARLES M. KNIGHT, A. M., Sc. D.,
Director of Chemistry.

M. ALICE RINES, A. M.,
Assistant Principal and Teacher of Latin and French.

CHARLES H. SHIPMAN, A. B.,
Teacher of Physical Science and Mathematics.

ELIZABETH A. THOMPSON, A. M.,
Teacher of English and History.

MARGARET F. WILSON, A. M.,
Teacher of English and Latin.

ELVAH H. GRAFTON, B. S.,
Instructor in Chemistry.

GENERAL INFORMATION.

Recognizing that students coming from all parts of Ohio and the adjoining states to enter college, have not the same preparation, and that many of them are deficient in or lack some branch of study essential to College admission, the Trustees established an Academy in which all deficiencies can be made up. The School also furnishes to such as live in towns not supplied with a high-grade High School an opportunity to acquire at moderate cost a thorough preparation for College classes. There are three courses of study of four years each, preparing for the corresponding College courses.

This Academy is under the same general administration as the College, and is under the immediate supervision of the Principal. All students are received as coming for the purpose of doing the best they can for themselves. All diligence will be used to advance them in their work, but as they do their studying in their own rooms, teachers cannot assume responsibility for those who, through want of application, fail to prepare their lessons. Self-government is the central idea.

Students who intend to take a College Course, are recommended to spend the last preparatory year in this School, on account of the better adjustment of the studies to the regular College work, and for the sake of mental discipline in accord with college methods of study.

Students will be examined and assigned to classes for which they are qualified. Those presenting certificates of promotion from good grammar schools or common school certificates under the Patterson law will be admitted without examination, subject to the condition that they sustain themselves in their work, but the right is always reserved to examine in English Grammar.

Those desiring to enter advanced work will be examined in the studies of the lower classes.

During the course of study, written reviews and unannounced examinations or tests are held at the discretion of the teachers, and final examinations made out by the Principal, are held in all subjects.

Original literary exercises are required of all students after the Preparatory year in connection with the reading of the books named on pages 45 and 46.

All the teaching will be done by regular instructors, some of them members of the College Faculty, and no pains will be spared to make this a school of thorough training in preparatory work.

At least fifteen (15) units are required for graduation. For definition of "units" see Terms of Admission, page 43.

A certificate of graduation will be given to all who complete the course without conditions.

The Academy is on the accredited list of the North Central Association of Colleges and Secondary Schools, Mt. Holyoke College, Smith College, Wellesley College, Vassar College, Case School, Cornell University, University of Pennsylvania, University of Pittsburg, and other representative institutions.

Graduates who have done creditable work will be admitted to these institutions on certificate.

The School occupies a building by itself—a modern school building, thoroughly equipped, with class rooms, offices, art rooms, laboratory, and hall.

All students have the use of the College library.

Strong students are allowed to take more than the regular amount of work so that during the fourth year they may take part College work.

Students preparing for colleges whose entrance requirements are not the same as those of Buchtel College, may select such subjects as will prepare them for the college chosen.

Special Students—While we believe that our courses of study are so planned as to meet most requirements, there are, nevertheless, cases where it is wise to depart from the regular course. Students not in good health may take as many subjects as they are able to carry. Students whose parents so desire, may select any subject which they are prepared to carry successfully.

REGULATIONS.

Regular class attendance, courteous deportment, and earnest endeavor are demanded of all.

Monthly reports of the progress of students will be sent to parents or guardians.

Parents will be requested to withdraw a student who, after full trial, fails to maintain himself in his studies.

No student will be allowed to take up or drop a study without the consent of the Principal.

The use of tobacco and alcoholic liquors in and about the buildings or on the campus is prohibited. It is useless to expect any pupil who indulges in either to make satisfactory progress in class work.

Parents are requested to co-operate with the Faculty in keeping pupils from these vicious indulgences.

All property destroyed, defaced or injured by students maliciously or carelessly must be paid for by such students.

All forms of hazing are prohibited.

Class "rushes" and class disturbances of every kind are forbidden.

All "initiations" of students are forbidden.

All term bills are due and payable on the first day of each half-year for the entire half-year. These bills must be paid or arrangements for their payment made satisfactory to the Secretary of the College, before entering any classes.

For statement of expenses see page 31.

DESCRIPTION OF COURSES OF INSTRUCTION.

LATIN.

First Year.

First Half. Gunnison and Harley's First Year Latin.

Second Half. Gunnison and Harley's First Year Latin completed and Selections, or Viri Romae.

Second Year.

First Half. Caesar's Gallic Wars, Allen and Phillips' Latin Prose, or text of similar grade.

Second Half. Caesar's Gallic Wars, 4 books completed and Prose Composition continued to Lesson 28.

Third Year.

First Half. Cicero's Orations. Sight Work. Prose Composition continued one hour per week.

Second Half. Cicero's Orations, 6 orations completed. Sight work, amounting for the year to two orations or their equivalent. Prose Composition. 72 pages for year's work.

Fourth Year.

First Half. Vergil's Aeneid. Prosody. Systematic Review of Grammar with prose composition, Allen and Phillips' Prose Composition.

Second Half. Vergil's Aeneid, 6 books completed. Prosody. Review of grammar completed. Prose, one week out of every four.

GERMAN.

A full three years' course of five hours per week will be given. For students in regular course, German may be elected in the third year. Students requiring three years' preparatory work in this subject should elect the same in the second year of the course.

The aim of the first year in German is to enable the student to acquire a good pronunciation, to familiarize himself with grammatical forms and principles, and with so much of a vocabulary as will make it possible for him to read simple German texts correctly and understandingly, and to answer questions upon them in German.

The aim in the second year of German is to review thoroughly the forms and principles of German grammar, putting them into constant use in translating English sentences of increasing difficulty into German; to acquire the ability to read easy German at sight and with sufficient ease so that the beauty of the original may be appreciated at first hand; to enable the student to give a brief account of the texts read, and to converse upon them in German.

The third year's work in German will be devoted to grammar review, prose composition, lectures in German, the reading of lighter works in prose and poetry, and the reading of classics.

First Year.

First Term—Becker-Rhoades' Elements of German and selected stories with exercises based on the reading text.

Second Term—Becker-Rhoades' completed. Exercises. Grammar review. Im Vaterland.

Second Year.

First Term—Joynes-Meissner's Grammar, Part I.; Storm's Immensee; Gerstaecker's Garmelshausen; or texts of similar grade. German Prose Composition. Sight translation. Free reproduction. Im Vaterland.

Second Term—Hoeher als die Kirche, "Der Schwiegersohn," or other texts. Im Vaterland. Joynes-Meissner, Parts I. and II. Prose Composition continued. Free sight translation. Free reproduction.

Third Year.

First Term—Review of Grammar. Prose composition. Lectures, dictated in German, on the History of German Literature. Sight translation. Reading of easier Prose or Poetical Works and Classics.

Second Term—Continuation of work of First Term. A study of German life and customs is substituted for the grammar review of the first term. Reading of more advanced works.

FRENCH.

A two years' course of French is offered in the Academy at present. A third year's work will be given, when the number of students electing it is large enough to warrant increasing the course.

First Year.

- I. *First Half-Year*—Francois' Beginner's French. Twenty-four lessons. Reader—La Grammaire (Labiche), finished, 39 pages.
- II. *Second Half-Year*—Francois' Beginner's French. Finished. Contes et Nouvelles (Lazare) First Series, 91 pages. Le Voyage de M. Perrichon—Labiche et Martin, 78 pages.

Second Year.

- III. *First Half-Year*.—Grammar (Chardenal) reviewed to lesson 84. Colomba (Merimee) 153 pages.
- IV. *Second Half-Year*.—La Grammaire-Labiche, 39 pages. Contes et Nouvelles (Lazare) Second Series—129 pages. Le Monde ou l'on s'ennuie—Pailleron, 112 pages. Prose Composition, Baillot and Twight-Brugnot, 50 pages.

ENGLISH.

The work in English has two definite aims—(1) it seeks a constantly increasing skill in the pupil's powers of language expression, and (2) it seeks at the same time to teach the pupil to appreciate good literature. It includes Grammar, Rhetoric and Composition, History of English Literature, Theme Writing, and the reading and study of the classics required for College entrance. The first half of the first year is given to a review of

grammar, and the simpler forms of discourse are taken up, and pupils are taught to apply the broader rhetorical principles in writing without formal study of these principles. In the second-half of the first year, formal work in Rhetoric is begun together with the reading of the classics, and this work is continued throughout the course. From the first, exercises in oral and written composition are required—one theme a week is written by all pupils—and numerous additional written exercises are expected. The subjects of the themes are chosen not only from the books read, but are based largely on daily experience and observation; for it is believed that a pupil should write something he wishes to write for an audience which wishes to hear it.

A more detailed statement of the course follows:

English I. 5 hours. Review of Grammar, Scott and Buck's Brief English Grammar.—Drill in simple narration and description.

English II. 5 hours. Rhetoric and Composition. Readings.

Rhetoric.—Text-book: Brooks and Hubbard's *Composition Rhetoric*. Elementary study of expression of ideas arising from experience, imagination, or acquired through language. Letter Writing—More formal study of description, narration.

Readings.—Bible Stories from the Old Testament. Scott, *The Lady of the Lake*. Composition 15 themes.

English III. 5 hours. Rhetoric and Composition.—Narration and description. 23 Themes.

Readings.—Ivanhoe, Silas Marner, *A Tale of Two Cities*.

English IV. 5 hours. Rhetoric and Composition.—Elements of Form, Rhetorical features of the sentence. 18 Themes.

Readings.—Lays of Ancient Rome and Sohrab and Rustum, *The Deserted Village*, *The Ancient Mariner*, *The Merchant of Venice*.

English V. 4 hours. History of English Literature.—Text: Tappan's *England's and America's Literature*. Theme writing, (at least one theme every week). Narrative Poems. (Macmillan's *Pocket Classics*.)

English VI. 4 hours.—A continuation of English V.

Readings.—Julius Caesar, The Sir Roger de Coverley Papers, The Sketch Book, Washington's Farewell Address, Webster's Bunker Hill Oration. Lamb's Essays. Macbeth. Themes as in English V.

English VII. 2 hours.—*Theme Writing, and Readings.*

Macaulay's Essay on Johnson, Milton's Minor Poems, Tennyson's Gareth and Lynette, Launcelot and Elaine, The Passing of Arthur.

One theme every two weeks. Note book consisting of outlines and answers to questions.

English VIII. 2 hours.—Review and application of principles of Rhetoric in Theme Writing. The work of the first part of this term is devoted to the writing of three 800 word themes; and the work of the last half to the preparation of a thesis of fifteen hundred words or more.

HISTORY AND GOVERNMENT.

This course provides for four years' work in History and Government, the aim being to bring before the student the rise, development and influence of Greece, Rome, the nations of Medieval Europe, the British Empire, and the United States. Note-books, map drawing, and supplementary reading constitute a part of the work in all courses.

History I—Ancient History. Text: Wolfson's Essentials in Ancient History. McKinley's Note-Book.

An introductory course, aiming to interest students in the earlier civilizations, and the History of Greece.

History II.—Ancient History. Text: Wolfson.

The rise and development of Rome and its influence in shaping world history. McKinley's Note-Book.

Supplementary Readings, 400 pages; Maps, 25; Outlines and Themes, 22. (For the year.)

History III. and IV.—Text: Myers, Medieval and Modern (Revised). McKinley's Note-Book.

The second year is devoted to the study of Medieval Europe and the great transitional changes of that period of history, and to the study of modern history; or

History V. and VI.—Text: Cheyney's Short History of the English People. McKinley's Note-Book.

This course presents the history of the English people, special attention being given to the causes and events in the development of the British constitution. Supplementary Readings, 500 pages. Themes, 22. Maps, 25.

History VII. and VIII.—Texts: Hart's Essentials of American History. McKinley's Note-Book. Forman's Advanced Civics.

The work of this course embraces a broader study of American history. The rise and development of the American system of representative government is carefully traced. The work in Civil Government is intended to impress upon the student's mind the responsibilities and duties of American citizenship and to familiarize him with the political and governmental institutions peculiar to our own country. Supplementary Readings, 500 pages. Themes, 22. Maps, 25.

MATHEMATICS.

Algebra I.—Five hours a week. (*First Half-Year.*) Text: Hawkes, Luby, and Touton First Course in Algebra.

Fundamental operations, parentheses, simple integral equations, problems, special rules in multiplication and division, factoring, common factors and multiples.

Algebra II.—Five hours a week. (*Second Half-Year.*) Text: Hawkes, Luby, and Touton First Course in Algebra.

Fractions, fractional equations, literal equations, general problems, simultaneous simple equations, involution and evolution, theory of exponents, surds and simple quadratic equations, physical equations and graphical solutions.

Algebra III.—Five hours a week. (*Second Half-Year.*) Text: Stone & Millis' Essentials of Algebra.

This term of Algebra is given after the pupil has taken Geometry, and during the last half of his Senior year in order that it may not be too far removed from the College Freshman Algebra. The term's work will include—Review of quadratic equations, equations in quadratic form, simultaneous quadratics, problems, ratio and proportion, permutations, logarithms, binomial theorem, physical equations and graphical solutions, etc.

Geometry I.—Five hours a week. (*First Half-Year.*) Text: Stone & Millis' Elementary Plane and Solid Geometry.

Geometry II.—Five hours a week. (*Second Half-Year.*) Text: Stone & Millis' Elementary Plane and Solid Geometry.

Geometry III.—Five hours a week. (*First Half-Year.*) Text: Stone & Millis' Elementary Plane and Solid Geometry.

SCIENCE.

Physical Geography.—Text: Fairbanks' Practical Physiology.

This subject includes the study of the earth as a globe, the atmosphere, the bodies of water, land forms and changes, shore lines, and the distribution of plants and animals. The country about Akron is especially rich in illustrative features. Places of interest are visited and a brief study of local formations is undertaken. A note-book covering about fifty experiments must be kept.

Botany.—Text: Coulter's A Text Book of Botany.

This course covers a study of seeds, food storage, stem structure and growth, roots, ecology of plants, families, habitat, etc. About thirty plants are analyzed and mounted, and a note-book covering about sixty experiments is kept.

Physics.—Required in all courses. Text: Mann & Twiss. First Course in Physics.

The first term covers Mechanics and Heat. A note-book (The National Physics Note-Book) is kept, covering about thirty-five experiments.

The second term covers Light, Electricity, and Sound. About twenty-five experiments are performed and recorded in the note-book. Credit is given for successful pieces of apparatus made by the student and the work is correlated with the daily life of the student to a large extent.

Chemistry.—Text: McPherson and Henderson.

A course for one year in Elementary Chemistry is provided for students who are preparing for scientific courses of study. They are given regular practice in the Academy Laboratory. The course takes up the study of metals, non-metals and the great types in organic chemistry. Ten or twelve quantitative experiments are required as a part of the year's work. A student who has completed this course, is better able to understand the chemical side of his other scientific work, such as the action of batteries in electricity, oxidations and reductions in physiology and the food reactions in the plants and animals.

BUCHTEL ACADEMY COURSE OF STUDY.

1912-1913

First Year.

	Hrs.		Hrs.
English I.	5	English II.	5
Latin I. or French I.	5	Latin II. or French II.	5
Ancient History	4	Ancient History	4
*Physiography I. or	5	*Physiography II. or	5
† Botany I.	5	† Botany II.	5
Drawing I.	2	Drawing II.	2
Gymnasium	2	Gymnasium	2

Second Year.

	Hrs.		Hrs.
English III.	5	English IV.	5
Latin III. or French III.	5	Latin IV. or French IV.	5
Algebra I.	5	Algebra II.	5
†Medieval History	4	†Modern History	4
* or English History	4	* or English History	4
Gymnasium	2	Gymnasium	2

Third Year.

	Hrs.		Hrs.
English V.	4	English VI.	4
Latin V. or German I.	5	Latin VI. or German II.	5
Geometry I.	5	Geometry II.	5
Chemistry I.	5	Chemistry II.	5
Gymnasium	2	Gymnasium	2

Fourth Year.

	Hrs.		Hrs.
Latin VII. or German III.	5	Latin VIII. or German IV.	5
Geometry III.	5	Algebra III.	5
Physics I.	5	Physics II.	5
U. S. History and Civics.	4	U. S. History and Civics.	4
German V.	5	German VI.	5
English VII.	2	English VIII.	2

Buchtel Academy is on the accredited lists of the North Central Association of Colleges and Secondary Schools, Mt. Holyoke College, Smith College, Wellesley College, Vassar College, Case School, Cornell University, University of Pennsylvania, University of Pittsburg, and other representative institutions.

*—1911-1912.

†—1912-1913.

BUCHTEL ACADEMY REQUIREMENTS FOR GRADUATION.

REQUIRED.

English	C. P. S.	3	units
Mathematics	C. P. S.	3	"
Foreign Languages	C. P. S.	(4)	"
Latin	C.	4	"
Latin	P.	2	"
History and Government	C. P. S.	(2)	"
Ancient History	C. P. S.	1	"
U. S. History and Civics	C. P. S.	1	"
Science	C. P.	(1)	"
Science	S.	(3)	"
Physics	C. P. S.	1	"
Chemistry	S.	1	"
Physiography	S.	1	"
or Botany	S.	1	"
Drawing	C. P. S.		
Gymnasium	C. P. S.		

ELECTIVE.

Latin	P.	1 or 2	units additional
Latin	S.	2, or more	units
French	C. P. S.	2, or more	"
German	C. P. S.	2, or more	"
Medieval and Modern History	C. P. S.	1	unit
English History	C. P. S.	1	"
Chemistry	C. P.	1	"
Physiography	C. P.	1	"
Botany	C. P.	1	"

C.—Classical. P.—Philosophy. S—Scientific.

At least fifteen (15) units are required for graduation.

REGISTER OF STUDENTS OF BUCHTEL COLLEGE.

For 1911-1912.

GRADUATE.

Grafton, Elvah Harley, B. S.	Barberton
Tillson, Hallie, Ph. B.	Massillon

SENIOR CLASS.

Arbogast, Harry Lee	S.	Akron
Buckman, Helen L.	S.	Akron
Davies, Ethel	P.	Barberton
Fehr, Inez	P.	Warrensville
France, Marjorie B.	C.	Kent
Ginther, Ralph B.	P.	Akron
*Haines, Harold	S.	Leroy
Hitchcock, Fred A.	P.	Akron
Otis, Katherine L.	P.	Akron
Rothenhoefer, Bertha	C.	Chicago Junction
Sladden, Lucile	C.	Cleveland
Wirth, Franklin J.	C.	Kenmore
Senior—12		

JUNIOR CLASS.

Alton, Myrtle	S.	Watertown, Canada
Bastian, Hattie	C.	Cuyahoga Falls
Church, Evelyn	P.	Akron
Curtice, Nelia	C.	Akron
Emmet, James	P.	Tallmadge
Esgate, Vere	P.	Akron
Fiebeger, Ruth	P.	Akron
Fike, Clinton Earl	P.	Akron
Fleming, William H.	S.	Akron
Gary, Gladys Janet	P.	Akron
Gilbert, Walter D.	S.	Atwater
Grimm, John	S.	Akron
Hackett, Helen Moore	P.	Akron
*Held, Lois	P.	Akron
Hockensmith, Farlin L.	S.	Wadsworth
*Hoch, Ellery T.	S.	Barberton
Inskeep, Harry	S.	Cuyahoga Falls
*Libis, Ethel Melrose	P.	Akron
Morris, Max	P.	Billaya Tezerkor, Russia
*Olin, S. Estelle	P.	Akron
Parker, Helen Marie	C.	Akron
Priest, Ruth Hall	P.	Akron
Rinehart, May	P.	Akron
Simmons, Harriet	P.	Leroy
Smith, Kimball Dolbeer	S.	Perry, N. Y.
*Stauffer, Velma Pauline	P.	Sharon Center
Ulrich, Joseph	S.	Akron
*Vittel, Peter	P.	Medina
Waltz, Raymond M.	S.	Akron
Way, Mildred	P.	Akron
Zimmerman, Guy	S.	Akron

Junior—31

(*Not in full class standing.)

SOPHOMORE CLASS.

Allen, Juliette	P	Akron
Barnette, Leroy T.	S	Akron
*Bethel, Arthur	S	Cuyahoga Falls
Blanchard, Catherine Amy	P	Oriskany, N. Y.
Bruederlein, Rilla M.	P	Akron
Caswell, Earle Warren	S	Perry, N. Y.
Chapin, Cosmo	S	Wadsworth
Dye, Ethel Charlotte	P	Akron
Harrington, Vera May	P	Akron
Harter, Ruth Belden	P	Akron
Head, Clarence William	S	Akron
Herriff, Dene	P	Kent
Huber, Grace M.	P	Akron
*Hull, Charles Thomas	C	Akron
*Jackson, Leo	S	Akron
*Jarvis, Ellen Douglass	P	Akron
Johnson, Edwin O.	S	Barberton
Joy, Mildred	C	Akron
Kraus, Charles M.	P	Akron
*Kreider, Harvey	S	Wadsworth
Lyon, Floy E.	C	Norwalk
*Marsh, Leah M.	P	Cuyahoga Falls
*Mohr, Chester Cyrus	P	Cuyahoga Falls
Roach Alberta	P	Akron
Sidnell, Albert Edward	S	Cuyahoga Falls
Strandborg, Carl	P	South New Lyme
Theiss, Lily May	C	Akron
Waters, Mary Hyde	P	Akron
Westley, Helen I.	P	Corry, Pa.
Whipple, Roy Wells	S	Perry, N. Y.
Wilson, Robert F.	S	Akron

Sophomore—31

FRESHMAN CLASS.

Adams, Ernest H.	S	Medina
Akins, Leroy W.	P	Akron
Alexander, Glenn F.	S	Wadsworth
Alling, Eliza Treat	P	Tallmadge
Arbogast, Gladys	P	Akron
Bowman, Margaret Eleanor	P	Wadsworth
Bruner, George	S	Akron
Burgett, Lynn Smith	S	Leroy
Cahill, George Frederick	S	Akron
Campbell, Florence	P	Akron
Carothers, Glenn	S	Akron
Carter, J. Bernice	P	Akron
Chamberlin, Marie Lenore	C	Macedonia
Conger, Sidney	P	Akron
Cooper, William Voit	S	Akron
Crisp, Park	S	Akron
Criss, Charles Earl	S	Akron
Davies, Stanley	S	Barberton

(*Not in full class standing.)

Dowell, Leora Isabelle	P	Warwick
Ellis, Harold	S	Canton
Fleming, Ina	P	Akron
Flower, Esther E.	P	Akron
Foltz, Will W.	S	Akron
Fuetterer, Charles T.	S	Akron
Gardner, Norman Edwin	C	Akron
Grant, Sherman M.	P	Akron
Hanna, Ezra Lloyd	S	Akron
Held, Lucile	P	Akron
Hillman, Harry	P	Akron
Hoover, Ethel	S	Akron
Hower, John B.	S	Akron
Hunter, Lella May	P	Tidioute, Pa.
Johnson, Gerald W.	S	Brunswick
Lake, Herbert Marquis	C	Chagrin Falls
Lukesh, Anna May	P	Akron
Miller, Eva	P	Akron
Miller, Gertrude	P	Massillon
Montgomery, Stanley	S	Akron
Motz, Hubert William	S	Cuyahoga Falls
Murphy, Effie	P	Akron
Palmer, Harry	S	Akron
Pouchot, Arthur	S	Akron
Pouchot, Walter J.	S	Akron
Reder, Mabel	P	Akron
Rentschler, Marie C.	C	Akron
Sammarone, Salvan	P	Akron
Seeger, Gaylord E.	S	Kent
Spencer, Elmer L.	P	Akron
Steiner, Verna Leoda	P	Akron
Sullivan, Julia	P	Akron
Taylor, Raymond S.	S	Akron
Thomas, Joseph	P	Akron
Tillson, Lucile	P	Norwalk
Tomlinson, Sprague	S	Perry, N. Y.
Waldsmith, Ralph G.	S	Akron
Ward, Welles W.	S	Perry, N. Y.
Watters, Ray Bradshaw	P	Akron
Weaver, Arthur William	P	Akron
Weaver, Pauline	P	Wadsworth
Wells, Margaret E.	P	Creston
Wilhelm, Merle	P	Akron
Wilhelm, Ruth	P	Akron
Wise, Myer	P	Akron

Freshman—63

SPECIAL STUDENTS.

Adam, Mrs. E. Reginald	Akron
Bell, Mrs. W. H.	Akron
Brown, Mary Rohan	New Vienna
Bunnell, Marion	Akron
Carnahan, Ruth	Akron
Carpenter, Adele Laurine	Akron
Eager, Mrs. William H.	Akron

Hotchkiss, Harriet Vernon	Akron
Jacobs, Huldah	Akron
Lee, Ruth K.	Akron
Risch, Pauline	Akron
Thompson, Jennie L.	Akron
Special Students—12	

REGISTER OF STUDENTS OF BUCHTEL ACADEMY.

For 1911-1912.

FOURTH YEAR.

Alling, Stella Katherine	Tallmadge
Bair, Russell	Bath
Chisnell, Carl Clarence	Akron
Church, John	Akron
Gilcrest, Lois	South Akron
Graham, Mary	Akron
Hamlen, Warner	Akron
Hunter, James Livingston	Tidioute, Pa.
Jones, Ruth E.	New Lebanon, Ind.
Klein, Mabel	Cuyahoga Falls
Miller, Guy Emmon	Barberton
Musser, Philip Sumner	Akron
Olin, C. Ralph	Akron
Sisler, Cassius Carl	Clinton
Thomas, Alma May	Cuyahoga Falls
Tobin, Dorothy M.	Akron
Woodbridge, Blythe	Barberton
Fourth Year—17	

THIRD YEAR.

Azar, Robert I.	Akron
Cobbs, Reginald M.	Akron
Crosley, Floyd S.	Zanesville
Dunn, Elvira	Akron
Heer, Helen W.	Akron
Mitchell, Fred	East Akron
Murphy, Irene	Akron
Olin, Esther E.	Akron
Stotler, Frank K.	Myersdale, Pa.
Tobin, Honora,	Akron
Third Year—10	

SECOND YEAR.

Childs, Celeste A.	Akron
Conway, Sarah	Cuyahoga Falls
Cruikshank, Florence	Akron
Frank, Paul A.	Akron
Hammond, M. Estelle	Akron
Krause, Dwight	Akron
Libis, Dorothy	Akron
Mell, Mary H.	Akron
Mitchell, Ernest C.	East Akron
Patton, Cuyler S.	Akron
Simon, Ruth I.	Akron

Spade, Irma L.	East Akron
Steele, William B.	Akron
Thornton, Dwight G.	Akron
Watters, William	Kenmore
Wright, Kathryn E.	Tallmadge
Wuchter, Ruth D.	Akron
Yost, Alfred C.	Akron
Second Year—18	

FIRST YEAR.

Alden, Priscilla	Akron
Anger, Ruth J.	Akron
Axtell, Ralph J.	Akron
Bonstedt, Katherine L.	Akron
Briggs, Clifton B.	Akron
Burger, Emma L.	Akron
Chamberlain, Georgia E.	Akron
Christy, Robert T.	Akron
Church, Harold A.	Akron
DeHaven, Dessie	East Akron
Firestone, Harvey S., Jr.	Akron
Frederick, Florence L.	Cuyahoga Falls
Frisby, William James	Akron
Hamlen, W. Nora	Akron
Holzworth, Mildred	Akron
Houser, George Crouse	Akron
King, Kathryn	Akron
Leavitt, Edward W.	Akron
Marks, Robert W.	Akron
McCausland, Mary	Cuyahoga Falls
Myers, Corinne	Akron
O'Neil, Isabel M.	Akron
Patton, Lawrence H.	Akron
Salisbury, La Rue	Akron
Stowers, Beatrice	Akron
Sumner, George A.	Akron
Surbey, Ethel E.	Akron
Turner, Louis A.	Akron
Viall, Arthur B.	Akron
Viall, Cornelia B.	Akron
Waters, Marian G.	Akron
Werner, Herman E.	Akron

First Year—32

SPECIAL STUDENTS.

Boerstler, Russell K.	Akron
Briggs, Carl C.	Cleveland
Burkmann, Anna	Akron
Clark, William S.	Wadsworth
Costigan, Charles	Akron
Emmitt, Stanley W.	Tallmadge
Ewart, Kenmyth L.	Tallmadge
Gilcrest, Frank	South Akron
Grandmontagne, Leo F.	Youngstown
Hays, J. Milo	Akron

Heintz, Earl	Akron
Horn, Arthur C.	Cuyahoga Falls
Joy, Florence E.	Akron
Joy, Josephine F.	Akron
*Lake, Herbert M.	Chagrin Falls
Limbert, Clinton B.	Tallmadge
Morey, Burt Sid	Akron
Moutes, George	Wadsworth
Ozmun, Sylvester P.	Akron
Rawson, Earl B.	Akron
Remington, Joseph F.	Akron
Roberts, Gladys M.	Akron
Rock, Hazel	Akron
Rockwell, Dorena	Kent
*Steiner, Verna L.	Akron
Towne, Louis	Akron
Tuttle, Harriet R.	Kent
Warner, Raymond M.	Barberton
Weber, Lyman	Hudson
Whigam, Echo	Akron
Whigam, James	Akron
Wright, Allen W.	Tallmadge
Wright, George M.	Tallmadge
Wright, Merrill D.	Akron
Special Students—34	

COLLEGE STUDENTS (Taking work in Academy.)

Akins, LeRoy	Akron
Bethel, Arthur	Cuyahoga Falls
Davies, Stanley	Barberton
Dowell, Leora	Warwick
Gardner, Norman	Akron
Harrington, Vera	Akron
Hull, Charles	Akron
*Lake, Herbert	Chagrin Falls
*Steiner, Verna	Akron
Thomas, Joseph	Akron
Ulrich, Joseph	Akron
Ward, Welles	Perry, N. Y.
Watters, Ray	Akron
Weaver, Arthur	Akron
College Students—14	

SUMMARY.

1911-1912.

COLLEGE STUDENTS.

Post-graduate	2
Senior Class	12
Junior Class	31
Sophomore Class	31
Freshman Class	63
Special Students	12
Total College	—151

*Transferred to College at Mid-year.

ACADEMY.

Fourth Year	17
Third Year	10
Second Year	18
First Year	32
Special Students	34
College Students in Academy Classes	12
Total Academy	—123
Men (exclusive of College Students).....	62
Women (Exclusive of College Students).....	49
Total	—111

DEGREES CONFERRED.

CLASS OF 1911.

Bachelor of Philosophy.

LOIS LEONARD BABB	Akron
MARY ELIZABETH CONVERSE	Mantua Station
MAGGIE SCOTT CRUICKSHANK	Akron
HARRIET DURGIN DODGE	South Berwick, Me.
ELMA MARIE HAAS	Akron
HAZEL BESSEY HART	Girard, Pa.
ALFRED HERBERICH	Akron
HAZEL FAY MINOR	Akron
LEONA GENEVIEVE OLIN	Kent
BESSIE ROTHENHOEFER	Chicago Junction
PAULINE ELEANOR SCHMIDT	Canton
RUTH WEBB SEYMOUR	Akron
MYRL TREMELIN	Cuyahoga Falls
HELEN LOUISE TOWNSEND	Akron
GROVER CLEVELAND WALKER	Ravenna

Bachelor of Science.

ELVAH HARLEY GRAFTON	Barberton
ARDEN ELLWOOD HARDGROVE	Akron
FRANK ORLANDO McMILLEN	Akron
ALBERT BURDETTE MYERS	Akron
FRED KARL READ	Akron
RALPH JEREMIAH WILCOX	Akron

ADVANCED DEGREES.

M. S. in Course.

FRED CHRISTIAN THEISS	Akron
HARRY E. G. WRIGHT	Akron

D. D. Honorary.

FRANKLIN CHESTER SOUTHWORTH	Meadville, Pa.
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LL. D. Honorary.

DAYTON AUGUSTUS DOYLE	Akron
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M. A. Honorary.

CHARLES BEEBE RAYMOND	Akron
MRS. ELIZABETH ALLAN THOMPSON	Akron

BUCHTEL COLLEGE ALUMNI ASSOCIATION.

Organized July, 1874.

Incorporated October 19, 1899.

OFFICERS FOR 1911-1912.

President, HEZZLETON SIMMONS, '08.....	Akron
Vice-Presidents, C. E. PETTY, '96.....	Cleveland
F. J. ROCKWELL, '99.....	Akron
Secretary, GRACE MARY MITCHELL, '00.....	Akron
Treasurer, ESGAR B. FOLTZ, '96.....	Akron

ALUMNI BOARD OF TRUSTEES.

Officers.

HEZZLETON SIMMONS, '08	President ex-officio
GRACE MARY MITCHELL, '00.....	Secretary ex-officio
ESGAR B. FOLTZ, '96.....	Treasurer ex-officio

Term Expiring June, 1912.

A. I. SPANTON, '99.....	Akron
GLADYS PARSHALL, '03.....	Akron
JOHN THOMAS, '04.....	Akron
ELIZABETH ROACH, '08.....	Kingston, N. Y.

Term Expiring June, 1913.

MRS. SUSIE C. COLE, '73.....	Akron
MRS. GRACE WHITEMAN, '98	Akron
CECIL C. MCNEIL, '09.....	Akron
CHARLES S. BULGER, '08.....	Akron

Term Expiring June, 1914.

MRS. E. F. VORIS, '77.....	Akron
CHARLES O. RUNDELL, '98.....	Akron
ARTHUR WARNER, '03	Akron
HOWARD ROHAN, '10.....	Akron

Annual meeting of the Association, June 19, 1912, 2:00 P. M.

Stated meetings of the Board of Trustees, June 20, 1912; November 21, 1912; February 20, 1913; May 15, 1913.

PRIZES.

THE ALUMNI PRIZES.

Awarded for excellence in scholarship.

1910-1911.

In Senior Preparatory Class to Julia Sullivan.

In Freshman Class to Lily M. Theiss.

In Sophomore Class to Ruth Priest.

In Junior Class to Marjorie France.

THE OLIVER C. ASHTON PRIZES.

Awarded for excellence in declamation.

1910-1911.

In the Junior Class: No contest held.

1911-1912.

In Senior Class: First Prize to Ralph Ginther; second prize to Ethel Davies.

In Sophomore Class: First prize to Leah Marsh, and second prize to Rilla Bruederlein.

Junior contest held after date of publication.

SECONDARY SCHOOL SCHOLARSHIPS.

Awarded for excellence in scholarship.

June, 1911.

Buchtel Academy to Myer Wise.

Tallmadge High School to Eliza Alling and Alma Thomas.

January, 1912.

Akron High School to Harry Hillman.

DONATIONS.

From April 24, 1911, to April 1, 1912, the College has received the following contributions:

CHEMICAL LABORATORY. RUBBER LABORATORY EQUIPMENT.

The Goodyear Tire & Rubber Company gave five large sheets of washed rubber for experimental uses of the class in rubber chemistry.

Charles P. Fox, of Akron, contributed samples of new rubber gums from various countries with type-written descriptions of their history.

The Firestone Tire Company, through Supt. John Thomas, gave samples of various crude rubbers to be used for lecture illustrations.

FOR THE DEPARTMENT OF BIOLOGY AND GEOLOGY.

The College has recently received from Harry S. Bryan, who represents the Goodyear Tire & Rubber Company in Mexico, a loan collection of valuable Toltec and Aztec relics. These were for the most part gathered by Mr. Bryan himself.

ENDOWMENT FUND.

Subscriptions and cash to the 1910 Endowment Fund have been received as follows:

From 5 present and former Students and Alumni,
the sum of\$ 115.51
From 6 persons other than the above, the sum of.... 10,531.00

GIFTS TO THE LIBRARY, 1911-1912.

Name.	No. Vols.
American Bar Association	1
Co-Workers Fraternity	1
Class of 1911	10
Frank, R. J.	1
Graves, A. R.	1
Harvard University	4
Hedges, J. E.	1
Knight, Mrs. C. M.	1
Library of Congress	1
Jacobs, Mrs. H. H.	53
New Jersey, State of	1
New York, State of	1
Oberlin College Library	3
Ohio, State of	5
Plaisance, Sarah	1
Porter, R. P.	1
Rockwell, Mrs. J. C.	1
Spanton, A. I.	3
Shipman, Mrs. Edna	133
Stebbins, Mrs. M. J. H.	4
Thompson, Slason	1
United States Government	18
U. S. Brewer's Association	2
Wilson, M. I.	6

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The College desires to acknowledge with especial appreciation, Mrs. Edna Shipman's gift of 133 volumes from the library of her husband, the late Professor William D. Shipman. Also the large number of useful volumes given by Mrs. H. H. Jacobs.

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